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1912

ONE YEAR 50¢.

THREE YEARS \$1.00

THE INDUSTRIOUS HEN

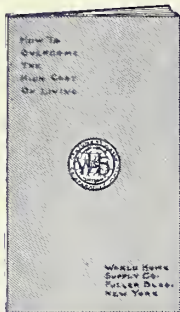
A MONTHLY MAGAZINE
FOR THE
COMMERCIAL AND FANCY POULTRYMAN



A "BROWN BEAUTY" HEN
1st Prize Winner at Atlanta, Georgia, 1912, Bred
and Owned by J. H. Henderson
Knoxville, Tennessee

THE INDUSTRIOUS HEN CO.
PUBLISHERS
KNOXVILLE TENNESSEE

HIGH COST OF LIVING OVERCOME



Reduce the high cost of living by joining our Co-operative Buying Club. Buy Groceries, Dry Goods, Furniture, Clothing and all kinds of dependable merchandise direct from about one hundred and fifty manufacturers at wholesale prices. Do away with the retail dealer entirely and

CUT YOUR LIVING EXPENSES NEARLY IN HALF

Everybody wants to reduce the high cost of living—that is only natural, it is human and it is right. And that is exactly what we can do for you. We can get you what you want at wholesale—which means, you can make your money go nearly twice as far as it does at present and buy nearly twice as much as you do now.

FREE

READ AND CONVINCE YOURSELF

Our Buying Club—the Club you ought to join—is the greatest Co-operative, mail-order buying organization in the United States. We actually bring the consumer and the producer together. We really introduce one to the other and enable them to do business without having a middleman charging toll.

We do it in this way: Our members send us orders for what they want; we sort and forward these orders to our manufacturers and wholesalers, and they, in turn ship the ordered goods direct to the members. All the trade expenses of travelling men, middlemen, stores and other selling costs are done away with and you get what you want when you want it at only a fraction of the price a retail dealer would charge you.

We carry no stock—we add no profit to the wholesale cost of merchandise—we simply act as a Clearing House. We gather orders from people who want to buy and pass these orders to manufacturers and wholesalers who want to sell.

We receive for our services a small five per cent fee from members for the privilege of buying at wholesale, while manufacturers allow our merchandising organization then discounts for cash—and on these two modest sources of income we work with satisfaction to all.

Our Buying Club is made up of thousands of families throughout the country who are daily sending us orders for all sorts of goods. These thousands of families ordering thousands of things keep us more or less constantly in the market for good sized quantities of articles—and because we come into the market for large numbers of things with cash in our hands, we are able to secure for our members absolute, bed rock, wholesale prices.

There is nothing mysterious about it. There is nothing wonderful in getting wholesale prices when enough people want enough goods to justify a manufacturer selling at wholesale. All it calls for is having the people and the orders—and those things we have.

To show you how Co-operative buying can be worked in a small way let us take up your own case: Suppose you and your friends made up one big combined order for all the groceries you wanted and took that big order to a wholesale grocer. He would sell

you the goods at wholesale, because your order would be large enough to entitle you to wholesale prices. And mark this—his wholesale prices would be very much lower than you would pay for the identical articles if you and your friends went separately to your local grocers and ordered individually, as you do now.

The money you and your neighbors could save on groceries we can save you on all sorts of goods—just as we are doing for thousands of others.

We can save you on some lines more than half, on others we cannot, but on everything we handle the average price is 20 to 40 per cent. lower than the stores charge—and that means if you buy things through our Club you can actually

SAVE \$20.00 to \$40.00 on each \$100.00 you spend

All that it costs to become a member is 50 cents for your membership fee—that, and a charge for running expenses of 5 per cent. on whatever you buy.

When you become a member we furnish you with a handsome loose-leaf catalogue containing nearly three-hundred pages showing a great variety of goods and giving the confidential wholesale prices that ordinarily are only quoted to store keepers. Then, whatever you want you order at the wholesale price, plus 5 per cent, and by buying in this way you can depend upon saving nearly half it now costs you to live.

We are a large concern, so large and dependable that we want you to know all about us. We are capitalized at \$5,000,000. At present we employ about seven hundred people. We have twenty resident buyers and their assistants to look after your wants. We occupy fifteen offices in the Flatiron Building and the entire seventeenth floor of the Herald Square Building in New York. In a word, we possess every needed facility for serving you satisfactorily.

FREE TO MEMBERS

The services of twenty resident buyers right in the heart of the New York market, also **This Handsome Loose-Leaf Catalogue** containing nearly 300 pages of Groceries, Drugs, Toilet Preparations, Dry Goods, Suits, Raincoats, Rubbers, Gloves, Neckwear, Umbrellas, Household and Dress Linens, Ribbons, Furniture, Rugs, Gas and Electric Fixtures, Furnaces and Stoves, Plumbing Necessities, Auto Supplies, Pianos, etc. The prices quoted in this catalogue are the **Confidential Wholesale Prices** ordinarily given to store keepers only.

SEND 50 CENTS—DO IT NOW—BECOME A MEMBER OF OUR BUYING CLUB TO-DAY AND SAVE MONEY

AGENTS WANTED In all parts of the country. Liberal commissions. Excellent pay. Permanent positions. Write for full information.

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A very compact book, size 8½x8½ inches, giving ample space for making entries without crowding. Printed on best quality paper and handsomely bound. Our simple labor-saving system of special indexing is a feature that adds much to the book and affords a great saving of time in making entries. 50 Leaves \$1.00; 100 Leaves \$2.00. : :

THE INDUSTRIOUS HEN CO.

: :

Knoxville, Tennessee

CONTENTS FOR DECEMBER, 1912

TWICE TOLD TALES.....	214
OLD STYLE LEGHORN vs. PRESENT DAY TYPE.....	Jas. E. Lawson..... 217
SLAUGHTER OF USEFUL BIRDS—A GRAVE EMERGENCY.....	Wm. T. Hornaday, Sc. D.... 218
SOME GOOD ADVICE TO POULTRY RAISERS.....	Harry M. Lamon..... 220
TO PRODUCE EXHIBITION FEMALES IN S. C. B. LEGHORNS...	J. H. Henderson..... 221
ADVANCE OF THE ENGLISH PENCILED RUNNERS.....	C. S. Valentine 222
THE CUMBERLAND WHITE-EGG INDIAN RUNNERS.....	Wm. C. Degelman..... 223
PREPARING TURKEYS FOR THE SHOW ROOM.....	J. C. Clipp 224
MATE AND MATCH YOUR CHICKENS NOW.....	Loring Brown 225
EDITORIAL	226
POULTRY SHOWS AND ASSOCIATIONS.....	Edw. M. Graham..... 227
OUR BREEDERS AND THEIR BIRDS.....	232
WATER FOWL AND TURKEYS.....	236
POULTRY DISEASE DEPARTMENT.....	J. A. Thornhill..... 237
TURKEY CROP A GREAT REVENUE IN THE SOUTH.....	Mrs. J. C. Shofner..... 241
SPECIALTY CLUBS AND ASSOCIATIONS.....	242

ALDRICH WHITE ORPINGTONS

THE STRAIN OF QUALITY



If you wish to WIN at your show, or if you wish the HIGHEST QUALITY of selected breeders at prices never before offered for White ORPINGTONS of selected breeders at prices never before offered for WHITE ORPINGTONS.

Our birds have won this season at the Great Allentown, Atlanta and Augusta Shows, 44 prizes on 60 birds entered in competition with 52 of the largest breeders in America from 11 different states. At Allentown we won both the Futurity Cockerel and Pullet, and at Atlanta our first prize cockerel received the sweepstake for the best cockerel in the show, of over 3,000 birds, while our first prize hen at the Augusta Show was pronounced the best ever shown in the South.

Our customers have also won this season in Hagerstown; Bismarck, N. D.; Glasgow, Ky.; Lancaster, Ohio, and many other shows, all these young birds being bred and raised on our farm or hatched from our eggs, from last year's prize winners at St. Louis, Baltimore, Pittsburgh, Cleveland, Chicago and MADISON SQUARE GARDEN.

Our egg prices will be one-half those of last year, making our best eggs \$15.00. Eggs ready December 1st.

Send for the Catalogue of AMERICA'S QUALITY WHITE ORPINGTON FARM.

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S. C. WHITE LEGHORNS

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Don't start until you are sure you are right.
If you do you'll fail, try as hard as you might.
If you raise poultry why not raise the best?
Breed the E. W. Grove strain and watch the nest.

E. W. GROVE, Jr. :- R. F. D. No. 1, Clayton, Mo.

We Envy No Man His Accomplishments, For They Are For Better Poultry

Life Member American Poultry Association

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Our yards contain the exquisite golden BUFFS, the snowy WHITES, the glossy green BLACKS, and the handsome DIAMOND JUBILEES. The birds are broad, blocky and remarkable for their vigor. They lay all winter, and early chicks are plentiful in our glorious Southern climate, to win in the following fall shows:

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ROSE AND SINGLE COMB
7000 TO SELL



Our Rhode Island Reds have been winning for years. For the last five years their winnings have been unequalled.

OUR BEAUTIFUL CATALOGUE of 64 pages and cover contains many articles on raising and caring for poultry in large and small flocks. It will also tell you why the Rhode Island Red is the best breed in the world. This catalogue has cost us a great deal to prepare and is too costly to send out promiscuously. We will send this postpaid for 20 cents in cash or stamps, Address all mail to

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October 7 to 12

1912

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TAR HEEL STRAIN

Won more first prizes in 1911-12 in some of the South's leading shows than all competitors together. Young stock better than ever before. If in need of cockerels, pullets or pens for breeding or showing, I can fill your needs.

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WYANDOTTES You Must Have

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WHEN WRITING TO ADVERTISERS PLEASE MENTION THE INDUSTRIOUS HEN.

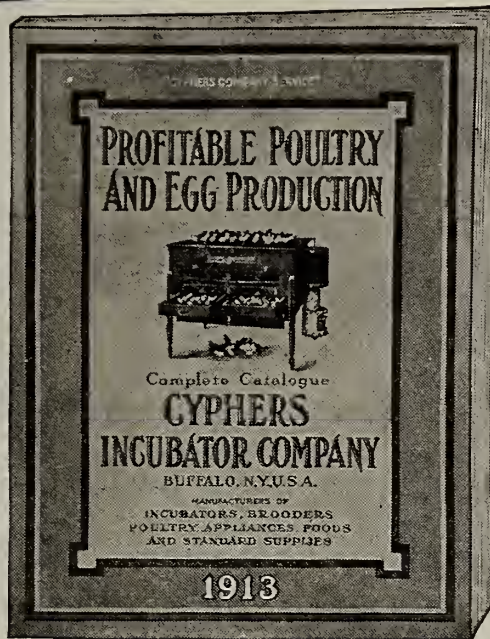
"Profitable Poultry and Egg Production"

HERE is the greatest Free Poultry Book of 1913—compiled for *your success* in one of the most promising money-making years in the poultry business. A book of sane, *practical* guidance—not written by one man or a set of men, but brought together from the garnered experience of *many* of America's *most successful* poultry men and women.

This Great Poultry Book is FREE

and its value to you will be immediate and *far-reaching*.

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Many Vital Facts**

The eight special chapters that go into the very heart of *profitable poultry and egg production* should alone be worth *many, many dollars* to you.

Here are the chapters—note how broad their scope, how personal and practical their application:

- Chapter I. —What is Possible in Poultry and Meat Production.
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- Chapter III. —Deep-Litter Feeding Experiments of 1912.
- Chapter IV. —Quick Maturity in General-Purpose Fowls.
- Chapter V. —Ages and Weights of Chickens for Table Use.
- Chapter VI. —How to Establish Prolific Egg-Yield Flocks.
- Chapter VII. —Today's Best Chance in the Poultry Business.
- Chapter VIII. —Small-Scale Poultry Keeping on a Practical Basis.

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The World's Standard Poultry Equipment and over one hundred separate articles—best of their kind—for poultry and egg producers' use—are fully illustrated and described in our 1913 Free Book.

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There is no question but that new money-making records will be established by enterprising poultry growers this season.

Highest Prices for Poultry and Eggs

Never since the Civil War have poultry and egg prices been as high as they are this year. This is no mere prophecy. It's founded on *facts*. Last season's shortage in the poultry and egg crop is the principal reason.

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And also remember this fact: that while you are to get more money for your products, they will be costing you *less* to produce and market, *because* grain foods are quite a little lower than they were last year. The farmers' enormous crops have brought the prices down, including chicken feed in common use.

Up-to-date poultry growers who use the latest methods are going to make large profits under these unusually favorable conditions. Many old hands are going

into the business on a bigger scale than ever before.

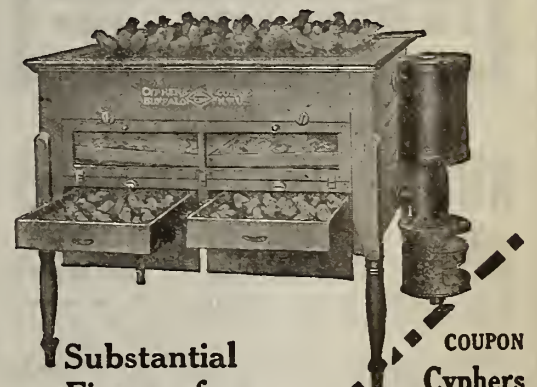
To avoid the numerous mistakes and pitfalls, let the Cyphers Year Book be your guide, and remember that the Cyphers Company's Service Department and Demonstration Farm are headquarters for money-making poultry facts. Well-known poultry experts now contribute.

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You have only to fill out this coupon and mail it to us to secure our 1913 Poultry Growers' Guide of 244 pages—each copy weighs one pound. But don't put it off! Remember the profits this year that are to be made and make *your start* early. Address



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Buffalo, N. Y.**

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Young stock, cross from two prize winning flocks. Our motto is "get the best." We have the best blood. Also Barred Rocks, Chickens and Indian Runner Ducks. Write us. E. ODOM, R. 1, Euche, Tennessee

S. C. BROWN LEGHORNS

Must sell. 1st, 3rd cocks, 3rd cockerel, Tenn. State Fair. 2nd pen cockerel; 5th cockerel, Augusta, Ga., and 25 utility and show cockerels from my Atlanta sweepstakes cockerel and 1st Indianapolis cockerel at wonderfully low prices. You can't beat it. Write at once to L. P. MATTHEWS Thorntown, Ind.

Rose Comb REDS White RUNNER DUCKS

Prize winners at Louisville, Nashville, Memphis and Cleveland this season. Exhibition and breeding stock for sale on our liberal guarantee plan. Eggs in season. Write for our prices and list of winnings before you buy. MRS. H. R. NUSZ & SON, B. 300, Cecilian, Ky

BARRETT'S BLUE RIBBON STRAIN

MOTTLED ANCONAS

I have a nice lot of Breeders for sale, at just half price. Write me,

L. M. BARRETT, Morristown, Tenn.

White WYANDOTTES

J. G. ROBBINS, Mayfield, Kentucky

SINGLE COMB RHODE ISLAND REDS AND BARRED ROCKS

Best stock, strong, vigorous, farm-raised. Eggs, \$2.00 per 15. A. S. BELL, Route 13, Knoxville, Tenn.

Single Comb White Leghorns

White and Fawn, and White Indian Runner Ducks. The winning kind, strong, vigorous and great layers of pure white eggs. If you are not satisfied with what you have, write me. Stock at all times. Eggs in season.

THOMAS COWAN Decherd, Tenn.

S. C. BUFF and WHITE ORPINGTONS

A select lot of breeding hens at \$2.00 up, pullets at \$2.50 to \$5.00 each, Cockerels \$1.00 to \$5.00, from prize winners.

H. S. THOMAS, Route 2, Georgetown, Ky.



Twice Told Tales

Punctuation Marks.

Returning from school the other afternoon, a little girl informed her mother that she had learned how to "puncshate."

"Well, dear," said her mother, "and how is it done?"

"Why, when you write 'Hark!' you put a hat-pin after it; and when you ask a question you put a button-hook."—November Lip-pincott's.

The Main Chance.

"I am much bothered," he said. "I can marry a wealthy widow whom I don't love, or a poor girl that I do love intensely. What shall I do?"

"Listen to your heart," advised his companion, "and marry the one you love."

"You are right, my friend. I shall marry the girl."

"Then give me the widow's address."—London Opinion.

Harry's mother and sister were away all afternoon, and when they returned his mother asked him if he had been lonesome. "No," he said, "but I cutted my finger just awful, and it hurted." "Did you cry?" asked his mother. "No," he replied, "what was the use? There wasn't anybody here!"—Ex.

Too Specific.

Mary had a little calf. 'Twas clad in silk, you know. And everywhere that Mary went the calf was sure to show.

Take a Lesson From the Hen.

Mr. Merchant, take a lesson

From the ordinary hen;

How she loudly advertises

Her great usefulness to men.

Lays an egg, then tells about it—

Lets the world know what she's done;

She's not like the lazy rooster,

Crowing at the rising sun.

When you've done a thing that's

worthy,

When you've got something to sell—

Why, just emulate Old Dorking,

Advertise, and do it well.

—Advertising World.



EADY'S S. C. RHODE ISLAND REDS



Winners wherever shown. We have won in many classes, we can furnish you with good breeders at reduced prices. We have a lot of old and young stock for sale. Get our prices before you buy. Our birds were bred from winners, have been closely line bred and are fine layers. Pens will be mated January 1st, 1913. Eggs at reasonable prices.

C. W. EADY,

Guntersville, Ala.

SICILIAN BUTTERCUPS

Eggs for hatching, \$2.50 for 15. Have a fine pen of these famous layers. A very few pullets and cockerels for sale. My mating list ready January 10th; send for one.

C. A. MOXLEY

Taylorville, Ill.

Wyckoff's Single Comb WHITE LEGHORNS FOR SALE

50 yearling hens, 150 pullets and cockerels at \$1.00 each. Well matured stock.

MRS. HARRY COVINGTON, Guthrie, Ky.

Printing For Poultrymen

We are prepared to fill all orders from poultrymen for printing. If you want your work illustrated we have the cuts. Write for prices.

S. B. NEWMAN & CO.

617 Gay St.,

Knoxville, Tenn.

Barred Plymouth Rocks

Cockerel and Pullet mating. Won 3 firsts, 3 seconds, 4 thirds, Lynchburg Fair, Va. State Fair, Oct., 1912. Fine Cockerels and Pullets for sale reasonable.

D. W. JARDINE
Staunton, Va.

EGG LABELS

Printed same day order is received. Get samples and prices.

S. B. NEWMAN & CO.
KNOXVILLE, TENN.

SWORN PROOF

307 Chicks From 307 Eggs

That's the Record of Mrs. F. J. Russell
 Summerdale, N. Y., in the Season 1912, using the



AJAX IMPROVED OXYGEN VITALIZER



Read—Sworn Proof

F. J. RUSSELL.

Breeder of High Class Poultry.

Summerdale, N. Y., July 12, 1912.

Reliable Poultry Specialty Co.

Gentlemen: It affords me much pleasure to furnish you with a report of my work with your AJAX IMPROVED OXYGEN VITALIZER for 1912. From my first hatch, I secured a big, strong chick from every egg but two. On the second hatch a chick from every egg but six, and on my third hatch of the season 307 chicks from 307 fertile eggs. I cannot speak too highly of the great worth of this truly wonderful device, and I heartily recommend it to all poultrymen and poultrywomen throughout the world.

With best wishes, I am,

Very sincerely yours,

MRS. F. J. RUSSELL.

Under
Seal

Sworn to before me this 12th
day of July, 1912.

C. R. CIPPERLY,

Notary Public.

Still More Proof

\$126.80 Saved

In One Season

WYANDOTTE FARM

Berwyn, Pa.

Berwyn, Pa., Nov. 1, 1912.

Reliable Poultry Specialty Co.,

Alexander, N. Y.

Gentlemen: So that you may fully realize what your AJAX IMPROVED OXYGEN VITALIZER did for me in 1912, I respectfully submit the following comparisons with the year, 1911.

I used the same machines in 1912, and set the same number of eggs that I did in 1911. Chicks hatched in 1911, 1370; chicks hatched in 1912, 1750, using Vitalizer; chicks saved in hatching, 380. Lost from White Diarrhoea in 1911, 30 per cent., or 411 chicks; lost from all causes in 1912, 9 per cent., or 157 chicks; saving as a result of using Vitalizer, 254 chicks. Total chicks saved in 1912 as compared with 1911, 634. Value of 634 chicks at 20c each, \$126.80.

In my experimental work of the season I fully proved to my entire satisfaction that the AJAX IMPROVED OXYGEN VITALIZER is a positive preventive of chicks dying in the shell and of White Diarrhoea.

You may use this letter as fully as you choose because the Poultry World ought to know the real value of this wonderful scientific device.

I wish you much success for 1913.

Yours very truly,

M. D. NEWCOMB.

ONLY eight eggs in an entire season's work that did not produce a big, strong, vigorous chick. Not a case of White Diarrhoea in the whole season. Do you want these results? If so, use the AJAX IMPROVED OXYGEN VITALIZER. "Oxygen is Life." The Vitalizer supplies oxygen to baby chicks when they are striving to overcome carbon dioxide poisoning and get into the world. The AJAX IMPROVED OXYGEN VITALIZER is a stop cock forged by science to cut off those frightful losses which come from "dead in the shell chicks" and White Diarrhoea. It does just what Science intended it would do, and we give you sworn proof of this fact in the letter of Mrs. Russell. Sworn proof is the best proof, and every man or woman who disregards sworn proof, has no right to complain of "hard luck" and make that an excuse for failure. The AJAX IMPROVED OXYGEN VITALIZER is not a promise, but a proven fact. There is not a poultryman in the world who does not know of the losses that come each year from "dead in the shell chicks" and White Diarrhoea. There is just one thing that will stop them, and that is our AJAX IMPROVED OXYGEN VITALIZER. It will do for you what it did for hundreds in 1912. It can be attached to any incubator in two minutes. It lasts a lifetime. It cost \$3.50 delivered to you anywhere in the United States. So simple in operation that a child can run it. It is sold under our printed, officially signed "money back" guarantee which goes with every Vitalizer. It will pay for itself many times over the very first hatch. Valuable booklet and scores of testimonials free upon application. There is only one, "AJAX IMPROVED." Buy no other. Order to-day. Be all ready for your first hatch. DO IT NOW.

BULLETIN

N. Y. State College of Agriculture.

"OXYGEN is essential to normal development, the amount required increasing with the growth of the embryo. The eggs give off carbon dioxide and this increases as the embryo grows."

The AJAX IMPROVED OXYGEN VITALIZER delivers just the right amount of oxygen, 99 3-10 per cent. pure, to the egg chamber just when the chicks need it most. RESULTS! A big, strong Chick from Every Egg.

See Mrs. Russell's letter above.

RELIABLE POULTRY SPECIALTY COMPANY

Department 4

ALEXANDER NEW YORK

Reference as to Responsibility: Bank of Batavia,
Batavia, New York



WM. COOK & SONS

ESTABLISHED 1873

ORIGINATORS

OF ALL THE

ORPINGTON FOWLS and DUCKS

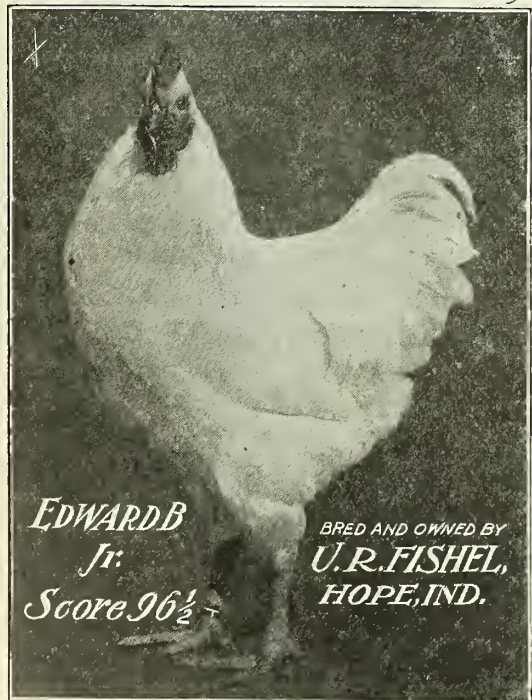
Box H. Scotch Plains, N. J.

EVENTUALLY, if after the best Orpingtons, all varieties, you will send to their **ORIGINATORS**. **WHY NOT NOW?** and avoid loss and disappointment; we **GUARANTEE** safe delivery and **SATISFACTION** which is backed by a **REPUTATION** of thirty-nine years standing, **THIS MEANS MUCH TO YOU**. We are not here today and gone tomorrow as some breeders have been and are doing. Then **EXPERIENCE** counts; surely we should understand **ORPINGTONS BETTER** than a man who has had them just a year or two.

We **MADE** the Orpingtons, all of them, including the Blue Orpingtons, our latest production, and are **RECOGNIZED HEAD-QUARTERS** for the best. A **VISIT** to our plant, where you are **CORDIALLY** welcomed, will prove this, as well as our **THIRTEEN THOUSAND** first prizes, and our winning 103 first and 72 seconds at Madison Square in six showings, **MORE** than eight times as many firsts as any other Orpington breeder.

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THE INDUSTRIOUS HEN

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Old Style Leghorn vs. Present Day Type

By JAS. E. LAWSON, New Holland, Georgia



THE question that is most frequently asked as an objection to Brown Leghorns is "Why are none of the large egg farms of the United States run with them? This work is being done principally with other varieties of Leghorns and a few with other breeds. Of course, a small part of this is due to personal preference, but the real reason why Brown Leghorns have lost so much of their original reputation as egg producers will be seen when you compare the past and present method of breeding them.

When they were first admitted to the Standard in 1894, they were one of the most, if not the most, popular breeds raised in this country, this popularity being due to their unsurpassed capability as egg producers. In fact it might be said that they were the standard by which other breeds could be measured, as to their laying qualities. Their egg capacity however was not their only good point as they were also one of the prettiest birds to be found anywhere.

This run for the Browns lasted for a period of practically fifteen years, they being bred extensively and shown frequently.

The exact origin of the Brown Leghorn is not known. We know that Leghorns were first brought over to this country from Leghorn, Italy, in 1835, but their color is a question still unsettled. Some claim that they were brown, others say that they were white, and that the browns were obtained by crossing the white with something

else, but as I say, this is all guess work, and personally I do not believe any of it, but rather think they were a very irregular mixture of colors, their general shape, and large combs being the only thing uniform about them. But be this as it may, when they were once straightened out to separate colors, and at the time we find the Browns receiving so much attention in America, they seem to have been

bred true to Leghorn blood, until the last few years, while they were improved all along, and after they were admitted to the first Standard, changes pertaining to their improvement were made in the Standard, but it was all within the bounds of Leghorn blood.

During this period of fifteen years the requirements of the Standard were such that a pure full-blood Brown Leghorn could go into the show room in his own natural color, without the contamination of foreign blood, and win prizes, the contest being between full-blood and full-blood. But this situation has changed in the last few years, for while the shows had increased the fanciers had increased

in greater proportions, and competition became too plentiful for the good of some breeders, so the Standard was again changed. This change called for a lower carriage of the tail in both male and female, and a greenish black stripe in the hackle and saddle of the male.

The lower carriage of the tail can be obtained to a certain extent, by proper line breeding, but the greenish black stripe in hackle feathers of male birds, that is so much sought for to-day, is unnatural to pure Leghorns and in order to obtain it, game blood has been used in a great many flocks in this country; indications point to Brown Red Game. This was not done in every flock, but in a great many, and it has spread to the extent that the most of the Brown Leghorns of today have more or less of this blood in them.

This evil is what is largely responsible for the Leghorns. This is why the Brown Leghorn of today is not in

old time Leghorn class as egg producers, as the introducing of game blood has so injured their value for this purpose; and many former breeders have discontinued breeding them entirely on this account.

This however, does not apply to all the Browns in this country, for there are a few flocks of the old original pure-bloods yet, but they are scarce. I believe though, the



WHITE KING
FIRST WHITE ORPINGTON COCK
BALTIMORE AND CLEVELAND - 1912 -
ALDRICH POULTRY FARM - Columbus, Ohio.

day is not far off, when these few that are left and being bred right, will be used to draw from, and pure birds will again be bred over this country like they once were.

The proper mating of S. C. Brown Leghorns is one of the most interesting as well as difficult problems known to poultry culture, but it should be handled in the right way and not done just any way to secure certain points. In mating them, first of all, let us have pure-blood and then keep it so.

There is no necessity on earth for the present conditions, for not only is the pure Leghorn one of the best of all egg producers, but also one of the prettiest birds in existence. What we need in this country at the present day is something useful as well as ornamental, and in the old time Brown Leghorns we have both.

We do not blame the American Poultry Association, however, for this wrong, nor the committee that had charge of any changes that have been made in the Stand-

ard, but the ones that are responsible for the condition are the breeders who had influence in bringing this change of the Standard about, and those who know the wrong now and are doing things to right it, and there is only one way that I can see to change the present state of affairs and put things back on right ground, and that is for those interested to get together in some way, either in the organization of the club, or in any way they may think best, and work for the purpose of getting the Standard changed to fit the description of a well-bred, pure Leghorn; and when the proper time comes, present their claim to the American Poultry Association, and I believe it will be done, for too many people are beginning to see the injustice that has been done to this valuable breed. When this is accomplished the S. C. Brown Leghorns will again be bred over this country like they once were, and not until then will they bear again the reputation which is rightly theirs, as egg producers second to none.

Slaughter of Useful Birds-A Grave Emergency

By WM. T. HORNADAY, Sc. D., Director New York Zoological Society,
New York City



THE American people must awake to a realizing sense of certain facts that seriously affect the cost of living. The 5,000,000 men and boys who are slaughtering our birds are levying tribute on every American pocketbook. Do you wish to know something about the total that they add to the cost of living? An immense number of birds of great economic value are being slaughtered, annually. Many of our best bird species are on the toboggan-slide toward extermination.

- The destruction of these birds means—
- A great increase in the armies of destructive insects.
 - A great decrease in our agricultural products, and
 - A great loss to consumers, and to farmers.

The insect pests are preying upon everything of the vegetable kingdom that man is producing, and upon many domestic animals as well. As their bird enemies decrease, the insect hordes increase. When 2,577,000 acres of wheat are destroyed in Indiana and Ohio in one year by the Hessian fly (1900), does anyone believe that such an occurrence does not raise the price of wheat? Of the loss to the wheat-growers, we are absolutely sure.

In 1904, the U. S. Department of Agriculture made a study of the annual losses to the people of this country by the ravages of destructive insects. So far as we know, the estimates published in the "Year-book" for 1904 have not been disproved or disputed. Behold some of the figures:

Our Annual Losses by Insect Pests.

Product	Percentage of Loss	Amount of Loss
Cereals,	10	\$200,000,000
Hay	10	53,000,000
Cotton	10	60,000,000
Tobacco	10	5,300,000
Truck Crops	20	53,000,000
Sugars	10	5,000,000
Fruits	20	27,000,000
Farm Forests	10	11,000,000
Miscellaneous Crops	10	5,800,000
Total		\$420,100,000

These figures are no joke. They have been prepared by competent experts in the Department of Agriculture, and they stand for hard facts. To-day the question is, shall we profit by them?

Cost of Certain Insects Per Species.

The codling moth and curculio apple pests cost us about \$8,250,000 a year for spraying operations and \$12,000,000 a year in shrinkage of value in the apple crop.

The chinch bug wheat pest sometimes costs us \$20,000,000 a year.

The cotton-boll weevil costs the cotton-planters \$20,000,000 a year.

The tree-insect pests cost the nation \$100,000,000 a year.

The grasshoppers, cut-worms, army-worms, wire-worms, leaf-hoppers and other insects cost the nation, annually, more millions than can be counted separately; but the total for all insect pests is \$420,100,000. Now, have we not paid this price about long enough?

The value of the birds destroyed as "game" and for "food" is not equal to 1-one-thousandth of the value they would save to the national wealth, if permitted to live.

Regarding the slaughter of our birds, the increase of insect pests, and the losses they inflict upon us, the great mass of the American people are sound asleep. The situation is illogical, absurd and intolerable. As reasoning beings it is our duty to take hold of this subject like men, stop the abuse, stop the disgrace and avoid some of the loss.

The American people do not realize that scores of species of the birds that sportsmen and pot-hunters are regularly allowed to shoot for sport are of immense value to agriculture. How many men are there out of every thousand who know that at least 30 species of shore-birds feed upon noxious insects, and are immensely valuable to our agricultural industries? The gunners who shoot legally are destroying 154 species of birds that legally are classed as game birds, even in the North.

How many Americans out of every thousand know the immense value of our songbirds, swallows, woodpeckers, blackbirds, quail, doves and nighthawks in destroying countless millions of noxious insects?

The Logical Conclusion.

In view of the decrease already accomplished in the general volume of the bird life of America, in view of the enormous losses annually inflicted upon the people of this country by the ravages of insects, and in view of the destruction of wild life that now is furiously proceeding throughout all America, the McLean bill, now before Congress, to provide federal protection for all migratory birds, becomes the most important wild life measure that ever came before the Congress of the United States in any form. In view of the annual losses to the wealth of this country that will continue so long as the McLean bill fails to pass, it is impossible for any one to put forth one good reason—unless it be on purely technical grounds—against that measure. By the inexorable logic of the situation, any man who opposes the enactment of a law for the federal protection of migratory birds becomes by that opposition an enemy to the public welfare. The bills introduced in Congress by Representatives Weeks and Anthony have dragged long enough. They provided for the protection of migratory game birds, only. Now it is time to strengthen their proposition—as Senator McLean has done—by providing also for the protection of all the migratory insectivorous birds.

Unless the people of America wish to shut their eyes to their own interests, and pay out millions of dollars annually in the form of increased cost of living, they should arouse from their lethargy and put up to Congress such a demand for the passage of the McLean bill that it

will be enacted into law at the next session of Congress. It is Senate Bill No. 6497, and on the Senate calendar it is No. 606. We can not afford to wait until 1914 or 1915; and Congress has full power to act this winter.

How many people in the North know that the negroes and poor whites of the South annually slaughter millions of valuable insect-eating birds, for food? Around Avery Island, La., during the robin season (in January when the berries are ripe), Mr. E. A. McIlhenny says that during 10 days or two weeks, at least 10,000 robins are each day slaughtered, for the pot. "Every negro man and boy who can raise a gun is after them!"

There are 7 states in which the robin is regularly and legally being killed as game! They are Louisiana, Mississippi, Maryland, North Carolina, Tennessee, Virginia and Florida.

There are 5 states that expressly permit the killing of blackbirds as "game": Louisiana, South Carolina, Tennessee, District of Columbia, Pennsylvania.

Cranes are killed and eaten in Colorado, Nevada, Nebraska, North Dakota and Oklahoma.

In 26 states, doves are regularly killed as game—much to the loss of the farmers.

The bobwhite quail is a great destroyer of the seeds of noxious weeds. In our fauna he has no equal. And yet, this fact is ignored. Throughout the North and most of

Senator McLean's bill is the best one of the three now before Congress. Call upon in person, or write to your Senator and Representative in Congress, and ask him to vote for and work for that bill until it becomes a law.

The next session of Congress is a short session, ending March 4. The people of the nation should call upon all their Senators and Representatives to take up the McLean bill as an emergency measure, and railroad it through before March 4. If enough constituents demand this, it will be done.

Now is the time to do something practical, and get a tangible result! Get busy with your Congressmen at once. A great effort will be required, but surely we are equal to the emergency.

Timely Poultry Notes.

Are your pet birds going to the fair? High time, then, to separate them from the others and begin fitting them up. Handle daily to train them to being handled at fair. Feed liberally. Keep in small pens with deep, clean litter, so as to get plumage as clean as possible by the time you will want to wash them for the show. With black or colored breeds, hardly any washing will be needed, if properly cared for in due time. Keep sexes in separate pens.



A view on the Ferris Leghorn Farm, 922 Union Ave., Grand Rapids, Michigan. This view gives an idea of the up-to-date plant on which the Ferris Strain of Improved White Leghorns are raised. If you cannot visit the Egg Farm the next best thing to do is to send for the forty page illustrated catalogue which will be sent free to any one who mentions this paper when writing.

the South, that species is mercilessly shot, and as a result it is fast becoming extinct. In New York State it will soon be as extinct as the mastodon—unless given a 10-year close season at once. Its value as a plentiful game bird is gone.

Insect Eating Shore-Birds—The shore-birds are being fast exterminated by sportsmen and pot-hunters who kill them for food, "according to Law!" The Eskimo curlew is totally extinct, and other species are fast going over the same road. Nothing in this world will save this group of birds except a law for the federal protection of migratory birds such as the McLean bill, now before Congress. The way the whole group of shore-birds is being exterminated is nothing less than a crime. And yet, at least 30 members of this group are of a great value to all of us, because of the great numbers of crop-destroying insects that they annually consume.

The Duty of the Hour.

The only way in which all these valuable migratory birds can be saved to us, is through the strong arm of the National Government, and a federal law for the protection of all migratory birds! Protection of game birds alone will not answer. Too many other birds are being killed for food, especially in the South.

Hens should not go into winter quarters filled with lice. I find blue ointment an excellent remedy for lice. Grease the fowls just under the vent. Here is the breeding place and the ointment kills the eggs of the lice. As a spray for the house, use crude petroleum with about 5 per cent crude carbolic acid. A spray pump is a necessity and just think of the many other uses to which it can be turned. Spraying the house is the quickest and most effective way to rid it of insects.—J. K. Morrison, in *Progressive Farmer*.

Neither turkeys nor guinea fowls can be successfully raised in the contracted space of a city or village lot. The farmer, however, with ample foraging ground for them, will find either or both very profitable. An important point with them is the regular morning and evening feed, with good quarters for protection at night.

Don't forget that rats are fond of young, tender chickens. Make sure your houses and runs are rat-proof. Don't wait until some of your best birds disappear before looking after this.

Eggs will, as usual, be high this winter. They will be high because scarce. The farmer can at least avoid this scarcity so far as his own supply of eggs is concerned.—F. J. R., in *Progressive Farmer*.

Some Good Advice to Poultry Raisers

By HARRY M. LAMON, Senior Animal Husbandman in Poultry
Investigations, Animal Husbandry Division

Selection of a Breed.

BE SURE that the male at the head of the flock is pure-bred. The Mediterranean or egg breeds are: Leghorns, Minorcas, Spanish, Blue Andalusians, and Anconas.

The American or general-purpose breeds are: Plymouth Rocks, Wyandottes, Javas, Dominiques, Rhode Island Reds, and Buckeyes.

The Asiatic or meat breeds are: Brahmas, Cochins, and Langshans.

The English breeds are: Dorkings, Orpingtons, and Redcaps.

For farm use, the American breeds are probably the best.

Pure-bred poultry means uniformity of products.

Uniformity of products means increased profits, if products are properly marketed.

Given the same care and feed, pure-bred fowls will make a greater profit than mongrels.

Subscribe for a good poultry paper.

Every poultry keeper should have a copy of the American Standard of Perfection.

Artificial and Natural Incubation and Brooding.

A well-ventilated cellar is the best place to operate the incubator.

The machine should be operated according to the manufacturer's directions.

Eggs saved for hatching purposes

should not be subjected to high or low temperatures.

In cold weather place from 10 to 13 eggs under the hen; in warm weather from 13 to 15.

Always test the hen on china or nest eggs before setting.

Given proper care and attention, the hen is the most valuable incubator for the farmer.

Use insect powder freely to exterminate lice when necessary.

If several hens are set in one room, it is desirable to confine them in good nests.

Straw and hay make good nesting material.

Sitting hens should be moved at night.

Whole corn is a good feed for sitting hens. Water, grit, and dust baths should also be provided.

All eggs should be tested by the seventh day, which often makes it possible to reset some of the hens.

Toe-mark the chicks as soon as they are hatched.

Powder the chicks occasionally during the first eight weeks.

Start the brooder a day or two before putting in the chicks, to see that the heating apparatus is working properly.

Brooder lamps should be cleaned every day.

Chicks should not receive feed until they are 36 hours old.

In cool weather 10 to 13 chicks are sufficient for one hen, while in warmer weather 15 to 20 can be cared for successfully.

Never mix chicks of different ages.

Confine the hen until the chicks are weaned.

The coop for hens and chicks should be well ventilated, easy to clean, and of sufficient proportions to insure comfort.

Poultry Houses and Fixtures.

Select a location that has natural drainage away from the building.

A dry, porous soil, such as sand or gravelly loam, is preferable to a clay soil.

In most localities the building should face the south, as this insures the greatest amount of sunlight during the winter.

Allow at least 2 square feet of floor space per bird.

Proper ventilation and sunlight mean a dry house and healthy birds.

The partial open-front house is conceded to be the best type for the most sections.

The colony plan of housing poultry may be adopted to good advantage on many farms. This system does away with the danger of tainted soil.

The roosts should be built on the same level, 2 feet 6 inches from the floor, with a dropping board about 8 inches below them.

Good roosts may be made of 2 by 2 inch material with upper edges rounded.

The nests may be placed on the side walls or under the dropping boards. It is best to have them

darkened, as the hens prefer a secluded place in which to lay.

Feeding.

In order to obtain eggs, it is necessary to have healthy, vigorous stock, properly fed.

Nature provides—	Scientific classification.	Poultrymen feed—
Worms and bugs	Nitrogenous material or protein	Eggs, meat (green cut bone or beef scrap), milk, or cottage cheese
Seeds	Non-nitrogenous	Wheat, oats, corn, barley, etc.
Greens	Succulents	Lettuce, cabbage, kale, mangels, alfalfa, clover, etc.
Grit	Mineral matter	Grit and oyster shell.
Water	Water	Water.

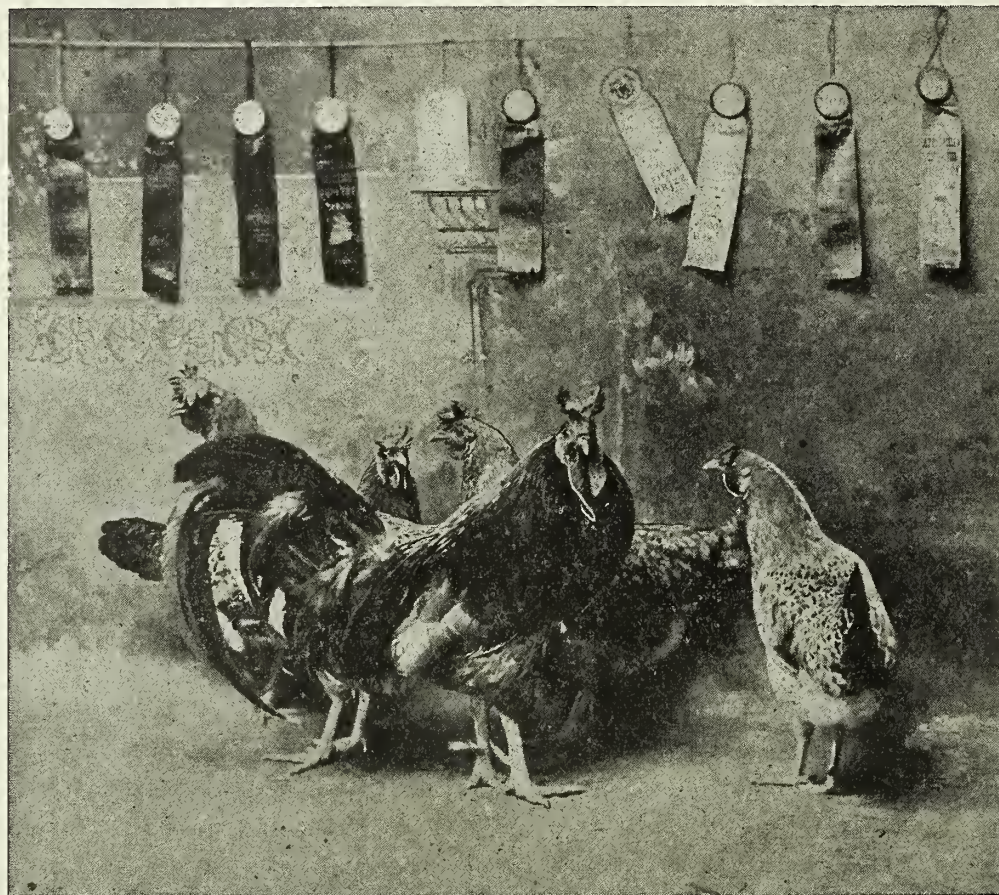
A splendid mixture for laying hens is equal parts of cracked corn, wheat, and oats, which should be scattered in the litter.

Bran or middlings and beef scraps should be kept in receptacles to which the fowls have access at all times.

Plenty of exercise increases the egg yield.

Provide 4 or 5 feet of good, clean litter in which to scatter the grain. Cabbages, mangels, potatoes, etc., make excellent green feed.

When wet mashers are fed, be sure they are crumbly and not sticky.



A PEN OF BUTTERCUPS

Blue Ribbon winners, bred and owned by Mrs. J. S. Dumaresq, Easton, Maryland

For the first three days chicks may be fed a mixture of equal parts, hard-boiled eggs and stale bread, or stale bread soaked in milk. When bread and milk are used, care should be exercised to squeeze all the milk out of the bread. From the third or fourth day until the chicks can eat wheat and cracked corn, commercial chick feed is a good ration.

Plenty of pure, fresh water, grit, shell, and green feed should be available from the first day.

Feed the chickens about five times daily and only what they will eat up clean in a few minutes, except at night, when they should receive all they want.

Egg Production.

Produce the infertile egg. (See rule 5, in this Article.)

Infertile eggs are produced by hens having no male birds with them.

Removing the male bird has no influence on the number of eggs laid by the hens.

The hen's greatest profit-producing period is the first and second years, and unless a hen is an exceptionally good breeder she should be disposed of at the end of her second year laying season and before starting to molt.

If possible, mark the pullets that lay in the fall, and use them in the breeding pen for the following spring.

Soft-shelled eggs are often caused by fowls being confined, becoming over fat, and from lack of mineral matter.

Marketing.

Uniform products command the best prices. Pure bred fowls produce uniform products.

Begin marketing the cockerels as soon as they weigh $1\frac{1}{2}$ pounds or attain a marketable weight.

When selling the eggs to the country merchant or cash buyer, insist that the transaction be on a quality basis.

Ship or deliver eggs twice or three times weekly.

Small or dirty eggs should be used at home.

When taking eggs to market they should be protected from the sun's rays.

Infertile eggs will withstand marketing conditions much better than fertile eggs.

Lice and Mites.

The free use of an effective lice powder is always in order.

A dust bath is very essential in ridding the fowls of lice.

In applying powder hold the fowl by the feet, head down, and work the powder well down into the feathers.

The free use of kerosene on the roosts and in the cracks will exterminate mites.

Whitewash is very effective against vermin.

Common Diseases and Treatment.

All diseased birds should be isolated.

Colds and roup—Disinfect the drinking water as follows: To each gallon of water add the amount of potassium permanganate that will remain on the surface of a dime.

Chicken pox.—Apply a touch of iodine and carbolated vaseline to each sore.

Gapes.—New ground and vigorous cultivation will often remedy this trouble.

Scaly legs.—Apply vaseline to the affected parts, and after 24 hours soak in warm soapy water. Repeat treatment until cured.

Diarrhea in hens.—Low-grade wheat flour or middlings is good for this trouble.

Bowel trouble in chicks.—Well-boiled rice mixed with a little charcoal will often check this complaint.

Rules.

It is urged that all farmers and poultrymen adhere strictly to the following rules in handling their poultry and eggs:

1. Keep the nests clean; provide one nest for every four hens.
2. Gather the eggs twice daily.
3. Keep the eggs in a cool, dry room or cellar.
4. Market the eggs at least twice a week.
5. Sell, kill, or confine all male birds as soon as the hatching season is over.—Reprinted from Bulletin issued by U. S. Department of Agriculture.



"PALERMO," BUTTERCUP COCK

Blue Ribbon winner, bred and owned by Mrs. J. S. Dumaresq, Easton, Maryland

To Produce Exhibition Females in S. C. Brown Leghorns

By J. H. HENDERSON, Knoxville, Tennessee.

IT IS always very much easier to tell the other fellow how it should be done than to do it yourself; but there are some things about the mating and producing high-class exhibition females which must be learned through experience, and can be learned in no other way.

I wish to remark, first, there is both a science and an art in the mating of S. C. Brown Leghorns to produce high-class exhibition specimens both male and female; but while this is very true, some of the best exhibition birds have been produced by accident through the crossing of two line-bred birds of different strains.

To succeed, one must have a love for the work—patience that will work on in spite of annoyances, and he must possess a very generous amount of perseverance.

Here are a few suggestions which if followed out will help the amateur breeders:

Lots of time may be saved by beginning right—make haste slowly. My advice would be to have some reputable and responsible breeder to mate up a pair of high-class line-bred breeding birds to begin with—the better your foundation stock, properly mated, the shorter the road to success.

Unless one can trap-nest his breeders it does not pay to mate up several females with one or more males, there is no reason why this mating should not produce some most excellent birds, but what if it should, the breeder is "at sea," the next season when he comes to mate his pens because he is unable to select the birds which produced the high-class fowls.

It usually requires about three years to make or break a fancier; a very large percentage generally give it up

in disgust during the third year. So do not become discouraged if you have some of the same experiences.

One pair of line-bred S. C. Brown Leghorns properly mated will produce in 90 days during the months of February, March and April about 60 to 75 per cent of eggs; we will suppose 50 hatchable eggs in all, and if properly incubated with hens, should produce nearly as many strong, healthy chicks. Now suppose one should raise 40 chicks to maturity which, as a rule, would be about one-half cockerels and one-half pullets.

There is no reason why one should not get a pen of first-class pullets as breeders to mate back to their sire. Keep about three of the cockerels to mate back to the mother at different times during the breeding season as an experiment, marking the chicks and noting results as chicks come to maturity.

You will no doubt find that while the cockerels are all of the same breeding, their offsprings will show up differently. If one proves to be a fine breeder, don't sell him for love or money—he is a foundation stone you can not afford to part with.

This is the first step toward making a successful breeder, and if one is not willing to take this first lesson and study it closely and learn it well, he will never make a true Brown Leghorn fancier and breeder and need not spend his good money in trying to purchase success.

The cut shown in this article is one among the very best S. C. Brown Leghorn hens ever produced. Out of the hatch which produced this hen I succeeded in raising to maturity two other pullets, making three in all, which were scored by Judge Owen 95½, 95 and 94½ as pullets. The mother hen scored 95 as pullet and 94½ as hen.

I give this information as proof that it is possible to produce high-class exhibition pullets without hatching them in great numbers, provided they are line-bred and properly mated.



Advance of the English Penciled Runners

By C. S. VALENTINE, President Cumberland White-Egg Indian Runner Club, Ridgewood, New Jersey.



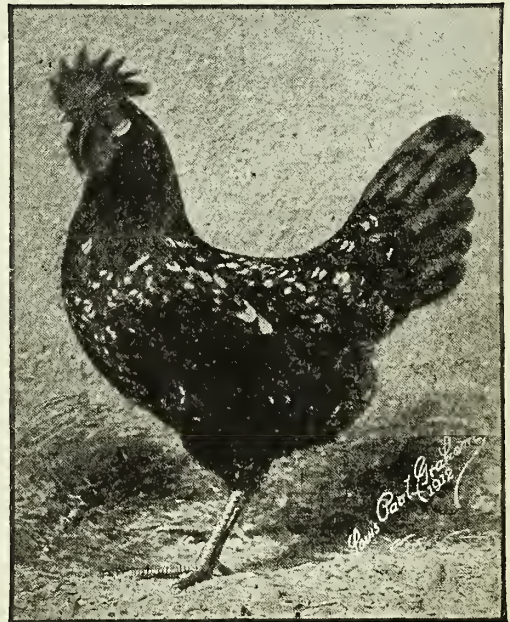
SOON as the "Cumberland White-Egg Indian Runner Club" was fully organized by holding its first called meeting, adopting its constitution, electing its permanent officers, etc., it set out to batter at the doors of the big shows. I say, "set out to batter." As a matter of fact, it might have gone out without its battering ram, for it found the Secretaries, Managers and Presidents of

the Show Association cordially ready to meet it, the only apparent exception being through a misunderstanding. The day before these notes are written, I received from the one exception an unequivocal invitation to the Penciled breeders to compete for both regular premiums and a big special, with a promise to write personal letters to a list of breeders of the Penciled type when received.

I need not explain to those who know the inside history of fancy breeding and the shows that this is one of the "famous victories," because it is far more important to a breed or variety to be in the shows than it is to be in the Standard. If it is in the shows, the buying public think it is all right, and it gains great prestige over any variety not there. It is really marvelous, and a direct testimony to the value of the Penciled type and to the courage and conviction of its breeders that it should have gained its present position. I question if any variety in this country has had such a difficult experience as that of the Penciled Runner, and the fact that it has sold right along, gained adherents right along, and has now gained entrance to all the big Eastern shows, with classes of its own, shows that both the people and the authorities believe in it.

It is probable that the next work of the Cumberland Club will be to look into the condition and the promise of New York markets, more thoroughly. This will be the bugle-note of the next advance for the Club and for Runner breeders and farm growers. The South has many advantages over the North in the matter of getting good profits from the Runner eggs, simply as a farm proposition. It has more open weather, so that feed is cheaper. It can grow more of the cheap, high-protein feeds,

so necessary in making eggs and feathers, and it can have first chance at the highest prices for the year, which are those of the early spring, when we consider duck eggs. With the eggs of the White-Egg Penciled ducks to meet the demands of customers, the Southern farmer can have the best of the game; having a bird to help him which will bring in at the average price which a New York commission dealer gave me as probable for Runner eggs, and



A Prize Winner, Bred and Owned by H. E. Portrum, Rogersville, Tenn.

at a very low calculation as to production, \$4.20. There are many stories abroad in this country of 250-egg averages, and even more. If we consider these, the Penciled duck, the best layer in the whole world, would produce annually per duck, not \$4.20 cents merely, but not less than \$7.25. But, casting aside all inflated averages, allowing 150 eggs as the average (which I know is possible in large flocks) we have \$4.20 as an average production from each white-egg bird.

Last week, I received a report from a farmer as far North as New York state, not far from Lake Ontario, that his 30 Penciled Runners were giving him as high as 24 eggs on some days, that his small son took most of the care of them, and that he, after a three-year trial, so that he knew what he was doing, was about to sell all his White Rocks and keep only the Runners. His birds are descendants of imported stock, from the best of the Penciled Runners originally from Cumberland County, England. These are now known as "Cumberland" birds, to distinguish them from a green-egg type lately put upon the market.

These birds have begun to go into the Experiment Stations of the South. They had begun to win there, even before the big shows opened their hospitable doors to the Cumberland Penciled Runner. For, at one of the large county shows in Texas, they not only gained most of the single prizes, but in connection with White Runners in the entries of a single breeder, were pronounced by the judge the best display of Runners he had seen in Texas to date. The word "Cumberland" as used in connection with these ducks and with our new Club is intended only to indicate that reference is to the Penciled ducks first distributed from Cumberland county, and their descendants. Those who want to make money from Runners without going into fancy stock and show birds should be very careful to get as foundation stock, the English Penciled, White-Egg, Cumberland birds. A Southern writer of some authority has written of green eggs from English birds, confounding two strains from the same breeder. The green-egg birds are not Cumberland birds, and this is where this writer made his mistake and unintentionally misled his

readers, while claiming to know all about it from experience. Others, without conscience, have said the same things on purpose to deceive the public. The Cumberland Club is bending all its effort to give the public the exact facts, and to preserve the White-Egg Runner to the farmers of this country. Indeed, its constitution says that its object is "to preserve and to encourage the best type of Indian Runner and to preserve the white egg, both to the farmers and the consumers of America."

It is well known and has been admitted again and again by judges, even in the show room, that the English Penciled variety of Indian Runners has superior type. The British Standard—that of the British Indian Runner Duck Club—was (says Mr. Walton, its secretary), "an honest attempt to save from extinction the truest Runner characteristics which could be found in the birds of that period"—meaning the period during which it was drafted. "It was with this object in view, that so much stress was laid upon type and so little upon color and markings." All the best Runners in England and those of the best breeders of the Penciled stock in America are bred to this Standard. They have a strong Standard and a strong club back of them, a club with the definite purpose noted above of preserving the best. The English do not think so much about the white egg as we do in this country, where White Leghorn eggs are bringing, this month, 11c above brown eggs. We once thought 11c a dozen quite a fair price for eggs; but now that it represents the price of white above brown eggs per dozen, it means even more than it once did, because that 11c is clear, clean profit; no expenses come out of it! It is because this country loves the white egg that the Cumberland Club lays so much stress upon it, and upon the fine type that produces it, and fences out now the other strains.

As to the judges, as noted above, I know of at least five who believe in the English duck, and say so; four of these are widely known, and work in the show-room every year. One is a very powerful judge. The list of licensed judges is not large, and when four very prominent judges, familiar with the best birds in the best shows, voice their belief in the Penciled type it speaks volumes.

The Cumberland White-Egg Indian Runners

By WM. C. DEGELMAN, Chairman, Business Unity Committee, Pittsburgh, Pa.



THIS is because we sincerely believe that the genuine Indian Runner duck will become in the near future of immense economic importance in the life of the people of the United States and Canada that we are tempted to offer a word of information and encouragement to those who are seeking a fowl that will truly pay its way.

Utility, or practical usefulness, must be the foundation of every breed that would claim permanence and be of real benefit to mankind. If this thought had been kept in mind, would not the poultry world have been saved so much of wasted time and effort.

To an amazing degree the Cumberland strain of White-Egg laying Indian Runners fulfills all requirements of utility and a great future is before it. We have had preserved for us by a few faithful and courageous breeders this strain of Indian Runners, the purest descendants of the original English importations. Unimpeachable testimony comes to us from all sides of the great egg-laying qualities of this duck and the reader is assured on the authority of the Cumberland White-Egg Indian Runner Club, of the United States and Canada, that this strain has not been known to lay other than a pure white egg for some eight years at least. (Breeders of other kinds dare not make any such claim.) If such is the case (and it is true) here is a firm foundation for any breeder to start with perfect assurance.

At this time we shall only speak in a general way on the practical side of this duck business. Right now there is an insistent and growing demand for stock and eggs and as the business is only in its infancy, there should be every inducement for foresighted breeders to enter it. Of first importance is the matter of selecting the right kind of stock. The "abundant" future in store for the Runner Duck breeder will absolutely depend on preserving its heavy-laying, white-egg qualities, and this we state without

qualifications, no matter what the Standard calls for or what breeders for color of feather may say.

We find that our Runner eggs hatch just about as well as hen's eggs, but in raising the young to maturity the duckling is so much easier to handle as compared to the chick that a comparison can hardly be made. Where losses are common with chicks they are the exception with ducklings. Less heat is required and food is cheaper at all stages. Lice and mites need not be thought of scarcely with Runners, while on the other hand, they destroy unknown millions of chicks every year.

Our Indian Runners mature in about five months (earlier than almost any breed of chickens) and begin laying beautiful, large, white eggs that look so good and have such a delicious flavor. The general opinion of those of us who know, is that Runner eggs taste just the same as nice, fresh hen eggs.

The equipment to raise our Indian Runners we find is far less expensive than with hens. Two foot wire fences will hold them and plain sheds will give them ample protection. All the bother with roosts, dropping boards, nests, roup and lice fighting apparatus is omitted. Our ducks are great foragers, practically taking care of themselves all day during the summer and coming home to "roost" without fail every evening.

Indian Runner Duck meat is of delicious flavor and fine texture, has the epicurean "canvas-back" taste, is firm and not greasy like the Pekin. We find there is a large call for such a duck in city markets, but the more profitable demand for breeding stock and eggs will keep breeders employed for a long time to come.

A utility fowl must certainly be a good layer if it can be fully classed as such. Our Cumberland strain has made history along this line and we believe we are justified in stating that they will lay more eggs on an equal amount of cheaper food and with less care than any breed of chickens. Then they lay well in the fall when hens have closed down for their moult. There is absolutely no trouble

in selling these beautiful white shelled eggs for market purposes.

To sum up the claims of our Cumberland strain of Indian Runners; they will lay around 200 eggs per year with reasonable care; they are shelling out a good average of eggs when prices are high; they cost probably less to feed than chickens; eggs have fine flavor, (not the old duck taste) pure white shell always; are larger than hen eggs

and bring better prices; the ducks do not set, have no lice or mites, no frozen combs, gapes or roup; the meat is of fine quality; they are easy to raise and care for. Isn't such a combination worth thinking twice about.

Next month we expect to be able to give some authentic egg records, personal experiences and other items about these ducks worthy of note.

Preparing Turkeys for the Show Room

By J. C. CLIPP, Saltillo, Indiana



SOUTHERN reader of The Industrious Hen writes for information regarding preparing turkeys for exhibition. There are many expert turkey growers that know but little about preparing turkeys for the exhibition room. The writer has passed on turkeys in some of the best turkey districts that always pull off the very best shows, and the turkeys entered in the show were grown

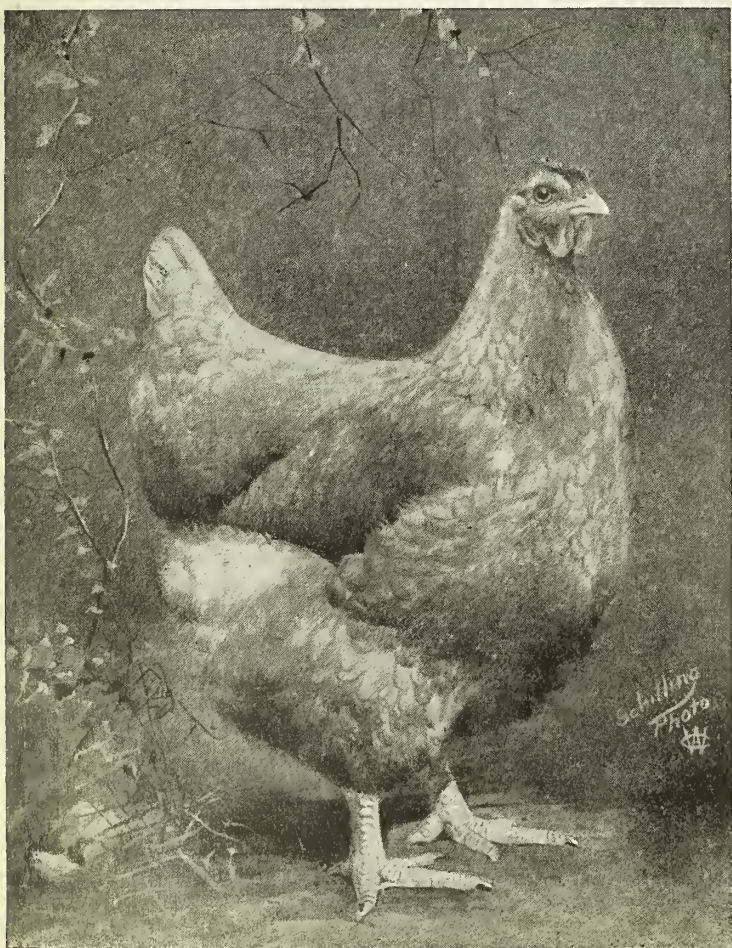
by the very best turkey experts in the country, but the performances of the turkeys in the show room indicated that the proper preparation to have the turkeys to appear in the best possible style was wanting. If a turkey can not be tamed so that it will appear in some degree of excellence they should never under any circumstances be allowed to find their way into the show room. When a turkey displays the timidity of a Leghorn at the appearance of the judge or any stranger in the show room that chances to approach the coop, it should never be allowed to appear as an exhibition specimen. Here is an inquirer that fully realizes the fact that "Old Kentucky," as well as many other Southern States, pulls off some of the best turkey exhibitions in the country, and wishes to become wise and shown just how to appear in the exhibition with those expert exhibitors in the best possible manner and writes for information, I am confident there are readers of the Industrious Hen that are more competent to assist this reader than your humble servant, but since I have been called upon for the information I will give you the best I have gained from several years experience in breeding and exhibiting turkeys. Kentucky and Tennessee produce the best turkeys grown in the United States. There are some mas-

terpieces elsewhere, but on investigation I find they came from some of the Southern States. Hence the wisdom of knowing just how to prepare your turkeys to exhibit at any of these Southern shows. I have long since learned that the first principles to observe in preparing the turkey for the show was to properly tame the bird so that it may become a fit subject for the show room. If your birds are unusually wild it will require several days to teach them to pose and act as if they had been grown up in a well cultured family. We have large canvas covered coops for the purpose of training the intended exhibition specimens, so that the birds can not possibly cut or bruise their heads or body in trying to get out. These coops are placed in a light, well ventilated room or shed, where there is no danger of drafts, and at the same time try to have the temperature as near normal as possible.

It requires some patience in working with the birds in order for you to be able to win their confidence. If you once give them a severe fright it will be sometime before you can ever restore their faith in you to what they once had. Clean their coops every day and never allow them to become filthy, handle the birds each day much the same as you know they will be handled by the judge. Teach them to obey you in turning them around in the coops with a stick. This may appear as nonsense to the experienced exhibitor who trains his poults without ever thinking of the amateur that knew nothing of preparing his birds for the exhibition. In training them in this way you will have no trouble about them becoming nervous and retreating to rear of the coop and possibly making an effort to escape through the coop. Just such performances as this when the judge makes an effort to pass his judgment on the birds often results in defeat for the owner. Remember too long confinement tires the birds and very frequently the strain results in sickness and detracts from its appearance to such a degree as to debar it from competition. Avoid this disaster by releasing the bird every day while at home, and by training in the coop daily you can get it accustomed to being confined to the coops.

Do not overfeed, but feed a variety ration all they will eat and never under any circumstances omit sharp grit and charcoal. Have them plump and fat, with shanks clean of old scales, brightened up with clean sweet oil. Do not handle them in a rough manner and suffer the loss of wing or tail feathers, either broken or a total loss. You will find young toms more prone to nervousness and harder to condition than old toms. Young females are likewise more timid than old hens. Old and young turkeys should never be shown in the same coop. We prefer crates for shipping the turkeys to the show, made so narrow that it can not turn round and at the same time sufficiently tall so the birds can stand upright. If you have a large old tom or turkeys of excessive size, then I prefer large, roomy coops, so that no plumage will ever be broken. It will be found a wise plan to hinge the top so as to make the coops convenient to remove the birds on arriving at the show. It will not be a difficult task to prepare your birds if you will use precaution.

If the farmers can be made to look at the poultry business from a business point of view, it won't be long until their flocks will receive more attention.



First Buff Orpington Pullet, Atlanta, Briarcliff Farm.

The American Poultry Association at its annual session at Nashville gave its endorsement to the Panama-Pacific International Exposition, and the interest being displayed in this department is intense. There will be international competition in every branch of the Poultry Division.

Mate and Hatch Your Chickens Now. Poultry Conditions in the Southland.

WITH the scarcity of the poultry crop all over the south this season, anyone who contemplates raising a large number of chickens the coming season should by all means get their birds mated, or at least a part of them, immediately, and get ready for business. As most of the old birds are through moulting and the young ones are practically grown, you should at least mate up a few pens and begin setting eggs at once. During the winter months is undoubtedly the time to raise chickens in the south. This fall has been one of the most favorable in years for beginning this work, and we should all take advantage of this splendid opportunity to get out a good bunch of December and January chickens.

If your birds have not fully recovered from the moult, feed them plenty whole corn and wheat, get them in flesh and in condition at once to produce eggs during the winter months. The best cockerels should be mated to the hens, and the best cock birds to the pullets. Hatch off all the chickens you desire during the winter and be ready to take care of the great demand for setting eggs during the spring months. There are but few breeders who are in a position to take care of large orders the coming spring, and the ones who are will certainly enjoy a big business. There never was before in the history of the poultry industry a brighter and better future ahead for the poultrymen than at the present time. My personal observation from a visit to many of the poultry shows and fairs during the past few weeks has more thoroughly convinced me than ever that the man who has the goods to sell, especially in quality, can certainly get the business and the other man's cash.

There is at present, and will be for the next year to come, a great demand for both strictly fancy high-class fowls and eggs, and an opportunity presents itself now for the breeders to make up the past bad season most of them have experienced.

Almost invariably the prize winners during the past few weeks at the leading shows were birds that were hatched in January and February, as they were in fine plumage and well developed, and most of the old birds who were in half moult had no showing at all in comparison to them. Our climatic conditions seem to be ideal during winter months for the raising of young birds in this section of the country, and no breeder can afford to not set at least a few hens or a few machines during December and January and get off some chickens.

There is always a number of buyers who are willing to pay the price for something that can win, and the man who has these birds not only makes a reputation for himself but he pockets the other fellow's cash. Every year when the shows begin, there is a new lot of buyers, and many breeders who need a few birds to fill in with, are ready and willing to pay the price for something to complete their string, and the man who has these birds hatched at the proper time and properly fitted finds himself with all the business he can possibly take care of. Every year will show these conditions, and there is no reason why the man who watches his business and attempts to put himself in a position to take care of this trade can not profit by doing so, and the way to not only furnish these prize winners for the early shows but to secure eggs during the late summer and fall months is to hatch a limited number of birds during the winter months. So mate your birds now, at least a few pens, and get ready to take care of some of the good business that is awaiting you next season.—Loring Brown, in Atlanta Journal.

MR. LORING BROWN, famous judge and breeder of thoroughbred poultry, and editor of the poultry department of the Atlanta Journal, has the following to say of the condition of the poultry industry in the South:

Right at this present time and during this season of depression in hundreds of other lines of industry, there are many breeders who have not realized their expectations during the present year. As trade has been unusually dull, not only in the poultry business, but in nearly every other line of industry the present year, lots of these breeders or those who have expected great profits will be and have become much discouraged and disappointed. To many of these, my advice would be to cut down their stock to a point where they can handle it as an outside issue, or keep only a number in quantity and quality where they show a fair percentage of profit and dispose of, even if it has to be consumed at home, the most inferior and surplus specimens and keep only the best for your foundation and only a number that can be kept at a reasonable expense and care, and by keeping close tab on these see where the leakage is and correct it. It is folly for any man after going over this experience and gaining knowledge

that will in time to come be an education and schooling that will add profit, to give up and yield to a few losses or disappointments that he had pictured in his mind as something that would bring him in a big revenue. As actual experience and information are the most profitable things a man can possibly be possessed of, it is folly for him to throw this away when he has once gained it, but should put it into practice and try to overcome the mistakes that he has previously made. One of the truest sayings that ever was is "for a man to find a thing is to look in the same place where he has lost it and stay with the game until he has accomplished his purpose"

and this surely does apply to the poultry business.

Many men who have lost money with poultry should never abandon it or give it up until they find where the leakage is and stop it and this can certainly be done more quickly and more profitably in this line of work than in any I know of. Hundreds of small breeders who have started out with bright hopes in the past few years have during this year found themselves in a position where they have not accomplished their expectations, but you can rest assured that this has not only come to yourself, but to hundreds of others. Thousands of farmers this year have spent hundreds of dollars that they will never realize one cent from. Many truck growers have done likewise and many poultry breeders find themselves in the same position, but this is no reason why they should not stick to the game and stay with it until they have accomplished their aim in life and the purpose they have started out to accomplish.

At this season of the year many breeders will offer to sell their stock at far below what it has cost them. This is in most cases a big mistake and right at a time when everything is at its lowest ebb, right then is the time for a man to go in heavier, as all things has its ups and downs, and if there is any money to be had out of any line of industry if you will stick to it through thick and thin you can not help but win out in time to come. This not only applies to the poultry industry, but to the live stock industry of this country. If you have spent several years in building up a strain of fowls and a reputation, you can not possibly afford to throw the time and money away.



"Lady Pearl," granddaughter of "Pearl Boy," a line bred female entered in a pen at the International Egg-laying Contest at Frankfort, Ky. Bred and owned by W. E. Gabhart, Bohon, Ky.

THE
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(Signed): EDW. M. GRAHAM,
Business Manager.

Sworn to and subscribed before me this 12th day of Nov., 1912.

W. S. McKINNEY,
Notary Public, Knox County, Tenn.

"In this same paper I find just six lines referring to the A. P. A. meeting at Nashville, only a few hours ride away, and these refer to the proposition to abolish the office of second vice-president and to the defeat of "Rule 17." Says the I. H.: "The resolution to abolish the office of second vice-president could have come from a different source with better grace." As I offered that amendment I suppose this allusion is to my opposition to the candidacy of the present incumbent of that office. As I also offered an amendment to abolish elective members of the executive board, some of whom I supported, and as the object of the amendment was to lop off all the superfluities, the above remark strikes me as even less graceful than my amendment."

The above appeared in the November issue of Farm Poultry, published by Mr. John Robinson, and in view of the facts as set forth above the writer owes Mr. Robinson an apology. We were under the impression that the amendment in question was offered by one Samuel J. Hopper, of Dallas, Texas, who is first vice-president of the association. If we mistake not we received notice from Mr. Hopper prior to the convention that it was his purpose to offer such an amendment. We did not think then,

nor do we think now, that the first vice-president was just the person to use his efforts to abolish the office of second vice-president, although we believed then, and believe now, that the office should be abolished. The office is worth nothing to the association, and is an expensive asset about convention time. Mr. Robinson is right in his idea of cutting off some of the superfluities, and we believe a majority of the membership will in time come to see the thing as he does.—E. H. D.

Don't fail to exhibit a bunch of your birds at the shows given in your territory this winter. The benefit derived from attending and exhibiting at the shows will more than offset the trouble and expense. The show room is a good schooling, especially for the beginner.

In writing to advertisers, we will appreciate it if you will mention The Industrious Hen.

President Hicks has announced that under no circumstances will he be a candidate for re-election.

A Wolf in Sheep's Clothing.

It seems from the following letters that our friend, Mr. W. F. Kilman, of Bald Knob, Ark., has been the recipient of great damage and gross injustice at the hands of some unprincipled show fakir, who realized that with Mr. Kilman's birds in the show room, he (the fakir) had no chance whatever to win. Words are inadequate to express our contempt for such an one, who, though garbed as a human, is a demon in disguise.

The letters are self-explanatory and we publish them in order that our readers and breeders everywhere, may be on the lookout for the fakir, and guard against his cowardly and disgraceful methods to win:

Bald Knob, Ark., Nov. 4, 1912.

Editor Industrious Hen,
Knoxville, Tenn.

Upon the promise of the management of the Jackson, Miss., show we sent a small string of our best Rhode Island Reds, being assured that the birds would be shipped out on Saturday, this in order that the birds might arrive at Pine Bluff no later than Sunday night, in order that we might properly arrange our exhibit for the Pine Bluff show.

As the birds had not arrived there late Monday night we wired Mr. W. C. Taylor, the Superintendent of the Jackson show, to learn just what disposition was made of our birds. Mr. Taylor responded that the birds were shipped to Pine Bluff late Saturday night.

Imagine our surprise when the birds arrived to see that the coops had not only been billed to Bald Knob, but the shipping tags placed thereon was marked Bald Knob. On examining the birds we found that not only was our birds in very bad condition from being without food and water two days and nights, but one of our best pullets was missing and was replaced with a bird of very inferior quality; two flight feathers from one wing of our best cock bird had been pulled out, and our best cockerel had both earlobes burned or smeared black with caustic or some black substance so adhesive that no remedy would remove the same. We called the attention of a number of poultrymen and two judges who examined the lobes and all agreed that same was not done to cover a defect but was done by some unprincipled competitor.

Cannot some move be made that an exhibitor may feel safe to send his birds to shows without accompanying them?

W. F. KILMAN,
Member Executive Committee, Arkansas Branch, A. P.A.

Carthage, Mo., Nov. 2, 1912.

W. F. Killman,
Bald Knob, Ark.

My Dear Sir:

At the Pine Bluff show this week the work of some unprincipled exhibitor at the Jackson, Miss., show was very damaging to your exhibit at Pine Bluff, your exhibit showing earlobes smeared with a hard, black substance, and mutilated plumage.

The work of your competitor at Jackson, Miss., in thus marring the value of your exhibit, is the work of as unprincipled, unmanly, manhood as disgraces the poultry fraternity, a disgrace alike to themselves and to justice.

Fraternally,
C. A. EMRY, Judge.

NOTICE, SHOW SECRETARIES

If in need of a competent and reliable Poultry Judge, write L. G. Cary, Trimble, Ohio, judge of all breeds. Can furnish references. Judge by Score Card or Comparison. A few open dates yet for the coming show season. Also breeders of Single and Rose Comb Rhode Island Reds, Partridge Wyandottes, White Leghorns, Mottled Anconas, White Cornish, Indian Runner, Rouen and Pekin Ducks. All kinds of Bantams. Catalogue free.

L. G. CARY, Trimble, Ohio

Poultry Shows & Associations

By EDW. M. GRAHAM.

The Iredell County Poultry Association will put on its second annual show at Statesville, N. C., Jan. 14-17, 1913. The management expects 1,000 birds to be exhibited.

The annual show of the Topeka (Kan.) Show Association will be held in the New Auditorium, Topeka, Dec. 30-Jan. 4. Full particulars, entry blanks, etc., may be had from Mr. W. D. Wallace, Topeka, Kan.

The Asheville (N. C.) Poultry and Pet Stock Association held its annual show, Dec. 3-6. The poultry department was exceptionally good. Judges Jas. P. Kerr and Dr. H. P. Clarke, placed the ribbons by the comparison method.

From present indications, one of the best shows of the season will be held at Morristown, Tenn. This little city is located in East Tennessee, and is the best poultry market in the State. For full information write F. D. Smith, secretary, Morristown, Tenn.

The Chattanooga Poultry Association will put on its annual show, Dec. 16-21. This association has issued a handsome premium list, showing many valuable prizes. Judge Marshall will handle the birds and place the awards. Write E. C. Barnes, secretary-treasurer, Chattanooga, Tenn.

We are in receipt of the handsome premium list for the third annual show of the Southwest Virginia Poultry Association, which will be held at Abingdon, Va., Dec. 10-13, 1912. The judging will be by comparison, and the ribbons placed by Judge Eugene Sites. For entry blanks, etc., write B. T. Wren, secretary, Abingdon, Va.

The annual show of the Louisiana Poultry Fanciers Association will be held at New Orleans, Dec. 19-22, 1912. The entries are limited to 2,000 birds, and will close at midnight, Dec. 9th. If you want to be represented at this great quality show, you will have to enter your birds at once. Write Rufus E. Bruce, Secretary, New Orleans, La.

The Second Annual Show of the Alabama Poultry Association will be held at Birmingham, Dec. 10-14, 1912. This association is chartered under the laws of the State of Alabama, with a capital stock of \$5,000.00. The National Buff Orpington Club and the State Branch of the A. P. A. will hold

SHOW DATES.

Peoria, Ill., Dec. 2-7, 1912.
Falls Church, Va., Dec. 3-5, 1912.
Taylor, Texas, Dec. 3-5, 1912.
Lincolnton, N. C., Dec. 3-6, 1912.
Hydro, Okla., Dec. 4-7, 1912.
Princeton, Ill., Dec. 9-13, 1912.
Bennettsville, S. C., Dec. 9-14, 1912.
Winston-Salem, N. C., Dec. 10-13, 1912.
Abingdon, Va., Dec. 10-13, 1912.
Birmingham, Ala., Dec. 10-14, 1912.
Morristown, Tenn., Dec. 11-13, 1912.
Victoria, Texas, Dec. 11-14, 1912.
Corsicana, Texas, Dec. 11-14, 1912.
Chattanooga, Tenn., Dec. 16-21, 1912.
Atlanta, Ga., Dec. 16-21, 1912.
Shelby, N. C., Dec. 19-21, 1912.
New Orleans, Dec. 19-22, 1912.
Parsons, Kansas, Dec. 23-28, 1912.
Louisville, Ky., Dec. 23-28, 1912.
Topeka, Kans., Dec. 30, 1912-Jan. 4, 1913.
DeSoto, Mo., Jan. 1-3, 1913.
Springfield, Ill., Jan. 6-12, 1913.
Warrenton, Va., Jan. 7-10, 1913.
Norfolk, Va., Jan. 7-10, 1913.
Plainview, Texas, Jan. 7-10, 1913.
Spartanburg, S. C., Jan. 7-10, 1913.
Rochester, N. Y., Jan. 7-11, 1913.
Portland, Ind., Jan. 7-11, 1913.
Charleston, W. Va., Jan. 7-11, 1913.
Roanoke, Va., Jan. 7-11, 1913.
Morgantown, W. Va., Jan. 8-11, 1913.
Blue Island, Ill., Jan. 8-11, 1913.
San Antonio, Texas, Jan. 7-12, 1913.
Charlotte, N. C., Jan. 10-14, 1913.
Washington, D. C., Jan. 14-17, 1913.
Stateville, N. C., Jan. 14-17, 1913.
Jacksonville, Fla., Jan. 13-18, 1913.
Marshall, Ill., Jan. 28-Feb. 1, 1913.
Columbia, S. C., Jan. 28-31, 1913.
Fort Worth, Texas, March 18-23, 1913.

Leave the newly hatched chicks in the machine for at least one day before placing them in the brooder.

Baltimore, Maryland, Poultry and Pigeon Association's Show

December 31st, 1912
to January 4th, 1913

THE ARMORY—Where the Democratic Convention was held. America's best Judges. Useful Sterling Silver Specials. Many new features of great advantage to fanciers. Premium List sent on application. Entries close Dec. 15th, 1912.

GEO. O. BROWN, Sec'y
2027 E. North Avenue, Baltimore

Anderson's Prize Winning RHODE ISLAND REDS

Make sure that you will win the ribbons. Show Anderson's famous Single Comb Rhode Island Reds. Winners of more and higher awards than all my competitors combined at three leading Southern shows last season. Elegant, carefully selected stock. Single birds and pens. Write for descriptive booklet and prices.

E. F. ANDERSON, Clinton, Miss.

Carolina's Quality Show

Under the auspices of the Spartanburg Poultry and Pet Stock Association, will be held Jan. 7-10, 1913, at Spartanburg, S. C. A high class show with recognized standing. Attractive Premium List now ready.

B. L. BLACKWELL, Secretary, Spartanburg, S. C.

Columbia Poultry Show

Columbia, South Carolina

January 28-31, 1913

Held under auspices South Carolina Poultry Association. Member A. P. A. Cash Prizes, Specials, and Cups. Best Judges, Expert Management, Courteous treatment, and square deal to all.

HELD DURING THE FIFTH NATIONAL CORN EXPOSITION.

There will be as many paid admissions to this show as any of the largest Southern Shows this season. More high priced sales will be made at this show than any of its size in the country. Send at once for Premium List and entry blanks.

T. L. LITTLE, Secretary-Treasurer, CAMDEN, S. C.

This 50¢ metal hopper
full of
PURINA
Chicken Chowder
Only 30¢



To introduce Purina Chicken Chowder—the great egg-producing dry mash, I will give you, *through your dealer*, this serviceable metal hopper chock full of Purina Chicken Chowder, for only Thirty Cents (30c).

“If Chicken Chowder won’t make your hens lay, they must be roosters.”

Purina Chicken Chowder assures an abundance of eggs because it contains approximately the chemical ingredients found in an egg. It makes fertile eggs for hatching. Offer made East of the Rocky Mountains, *through dealers only*. If your dealer can’t supply you send us his name.

Poultry Book Free!

For your dealer’s name, I will send you this 48-page Purina Book, containing plans of houses, breeding and feeding charts, space for daily egg records, cures of diseases, etc., etc. Write to-day, edition limited.



Col. Purina, Purina Mills
819 South Eighth St., St. Louis

Single—WHITE ORPINGTONS—Comb

Prize winners at seven of Kentucky’s best poultry shows, including Lexington and the State Fair at Louisville. Took 75 per cent of all cups and ribbons shown for, and in some cases every “Blue.” Won Display Special at Ky. State Fair and others. Limited number of Cockerels for sale, \$5.00 each. Eggs for sale in season at \$3.00 and \$5.00 per fifteen.

W. B. GWYNN & SON, 355 E. Main St., Georgetown, Ky.

LANSDEN’S FAMOUS RHODE ISLAND REDS

Again stamp their superiority at the great Tri-State Fair. Meeting the best from four States, and a bunch from one of the “Eastern Would-be Kings,” by taking 8 prizes including first cock, first cockerel. Lots of show birds for you, and before you go up against it, you had better write me. My customers are winning all over the south and west.

My customers’ list, “if you could see it,” would surprise you.

Licensed Poultry Judge.
21 years experience in the business.

H. B. LANSDEN, Manchester, Tenn.



Let Chas. A. Cyphers Save You 50% On A Standard Buffalo Incubator

The Cyphers who is “The Recognized Authority” on Artificial Hatching. The Cyphers who made Commercial Hatching Possible. The Cyphers who discovered the Cyphers Principle.

The Cyphers whose Incubators Circle the World.

The Cyphers who will sell you his latest creation, the “Buffalo” at half the Standard Price.

Let Me Save You 50% My new Incubator, the Buffalo, fulfills the life-long demand of thousands of poultrymen. It offers all the Quality of the best high-priced incubators, at just half the price of any other incubator containing the Cyphers Principle.

I am proud of my new creation. The Buffalo is simply a wonder. There is nothing cheap about it but the price. I offer you an Incubator that is second to none in **Durability, Reliability, or Quality**. You can’t get a better incubator than the Buffalo, no matter how much you pay. You can’t get one as good. There are incubators and incubators, and nearly any of them will hatch some chickens. The biggest profits are made by operating the **Buffalo**, which will hatch a strong and vigorous chicken from every hatchable egg.

Note My Low Prices

Offer No. 0—50 to 60 Egg Size—Shlp. Weight 65 lbs. \$ 9.50 | Offer No. 2—220 to 240 Egg Size—Shlp. Weight 130 lbs. \$16
Offer No. 1—110 to 120 “ “ “ “ 90 lbs. \$12.00 | Offer No. 3—340 to 360 “ “ “ “ 160 lbs. \$20

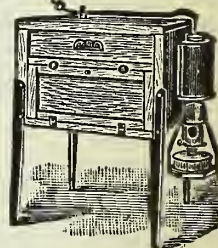
My Brooder Prices Are Equally Low.

Large Capacity Incubator SOMETHING NEW 1200 Egg Capacity \$80.00

Occupies same floor space as any standard 360 egg machine. Or run in conjunction with your present hatcher, whether a Buffalo, Cyphers, Model or Prairie State, will increase its capacity by 900 eggs. Incubator section alone costs you but \$60. This is an Incubator, not a Hatcher. You put in 300 eggs every six days, and after the 18th day transfer the first 300 to the regular hatcher for the exclusion. Has the other large hatches beat in quality in price, in economy of labor, in space occupied and in price.

Get your name in for first circular announcement. Don’t buy until you get my offer. If you want more information about Buffalo Incubators or Brooders send a postal today to

CHAS. A. CYPHERS, Pres. Buffalo Incubator Company,
476 Dewitt Street, Buffalo, New York.



their meeting in connection with the show. Dr. Hal. F. Halstead is the Superintendent, which fact alone guarantees a square deal. Write Kyle Lawson, secretary, Birmingham, Ala.

The Lincoln County (N. C.) Poultry Association will give its third annual show at Lincolnton, December 3-6. Judge R. L. Simmons will place the awards according to the score card system. A handsome premium list has been issued and many valuable prizes offered. While in Lincolnton a few days since we had the pleasure of meeting Mr. S. P. Houser, the superintendent of this

show, and he assured us that no pains or expense would be spared to make this the best show in the history of the association. Further particulars may be had by addressing Mr. Houser, or the secretary, Mr. D. H. Shields, Lincolnton, N. C.

We are in receipt of a full list of winnings on poultry at the Coffee County Fair, which was held at Douglas, Ga., Nov. 12-16, 1912. We are sorry that lack of space forbids us publishing full list of awards of all the shows, but we are compelled to confine the publication of winnings to our advertisers, whose awards we will be glad to publish when sent to us by the advertiser, together with his signature to same as evidence of good faith. Judge S. J. Harwell, of Adel, Ga., placed the awards at the above show, to the great satisfaction of all exhibitors.

The thirteenth annual show of the Fanciers’ Association of Indiana will be held in Indianapolis, February 3rd-7th, 1913. Big silver cups from \$25.00 to \$100.00, good cash prizes, elegant special prize and sweepstake badges. Free Empire coops, special superintendents and the best judges in the country are some of the features of this show. Specialty club meetings with their special ribbons and cups will also make this show more interesting to you. We have the best transportation facilities of any show city

"DON'T WORRY! CONKEY WILL CURE ME!"

CONKEY would like to hear from poultry raisers everywhere who dread loss from ROUP. Your money back if Conkey's Roup Remedy EVER fails you. Many breeders use it as a PREVENTIVE. Price 50c and \$1.00. All dealers or sent direct. Get this NOW.

Send for complete list of Conkey Remedies. If you enclose 4 cents in stamps we will mail you 80-Page POULTRY BOOK free.

The G. E. Conkey Co., Dept. 17
Cleveland, Ohio

in the United States. For further information regarding the best show in the country, write to the Secretary, C. R. Milhous, Indianapolis, Indiana.

The Eastern Indiana Poultry Association, Inc., Show, will hold its annual exhibition Jan. 7-11, 1913. Judge J. C. Clipp will place the awards, and the judging will be by comparison. This association is one of the oldest in the State, having been organized in 1903, and its annual shows have been quite successful and the management has paid all premiums since the first show. Mr. H. V. Tormhlen, is the secretary.

The Duluth (Minn.) Poultry Show will be held from February 3d to 8th, 1913, and will be judged by the comparison method by George W. Hackett, of North Freedom, Wis. Entries close on Wednesday, January 29th, 1913. This Association paid over \$600 cash premiums last year besides numerous special prizes. For other information and premium list, address F. P. Hallock, secretary, 323 W. First St., Duluth, Minn.

In the organization of the American Fanciers' Association, Cincinnati, Ohio, that body showed its wisdom in the selection of Mr. Asa G. Candler, Jr., of Atlanta, as second vice-president. At their coming show there will be more than 100 silver cups offered. Catalogue will be ready for distribution Dec. 15, and a copy may be had by addressing the secretary, W. C. Pierce, 625 E. 21st Street, Indianapolis, Indiana.

The Putnam County Poultry Association held its first annual exhibition at Cookeville, Tenn., Nov. 6-9. There were more than 500 entries, which far exceeded all expectations and the attendance was agreeably surprising. The management of this association are sure enough hustlers, possessing the necessary business ability, push and energy so necessary to a successful show. They already have \$300.00 in cash for specials, cups, etc., for their next show.

Extensive preparations are being made by the officers of the Florida State Poultry Show for its second annual exhibition, which will be held at Jacksonville, January 13-18, 1913. The management informs us that it proposes to make this one of the largest shows ever held in the Southeast. A handsome catalogue will be issued

More Eggs - Bigger Profits

YOU can have both by feeding Darling's Meat Scraps to your hens. Every ounce of Darling's Meat Scraps is absolutely fresh. Trimmings from roasts and steaks sold over the butchers' counter are picked up by our wagons the same day and cooked that night. In short, Darling's Meat Scraps are made from the fresh trimmings from the edible portion of the carcass. This gives uniform quality and sweetness. Besides—

Darling's High Protein Meat Scraps Contain 55% Protein

They are low in fat, and fine ground as recommended by both the Experiment Stations and practical poultry raisers.

Darling's Meat Scraps cost no more than goods of lower protein content. Insist upon Darling's 55% Protein Meat Scraps at your dealers.

Every Poultry Man should send for a free copy of our book on poultry feeding.

This book is replete with timely, helpful and specific suggestions and hints on the care and feeding of poultry that you should know and profit by. It tells how to increase egg production and egg profits. Whether you own 25, 50 or 500 fowls, you will be tremendously benefited by reading and studying this book. Write for your free copy today. Simply address:

Darling & Company
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4TH YEAR
POINTS THE WAY
START RIGHT
YOU END RIGHT

PICK OUT THE HENS

for your breeders by the quality of the eggs they lay now. By this means such hens will lay "xx" eggs next spring. "Start Right" and your eggs are as good as hatched before you begin to incubate. Start wrong, or shiftlessly, and one-half your eggs are wasted. These words are as true as can be spoken and you stand to lose if you do not choose your breeders **exclusively** by the register of the **Magic Egg Tester**. Sent by mail, complete for use, upon receipt of \$2.00. Ten pages of testimonials. One year's trial, money refunded if requested. Magic Egg Tester Works, Brayton St., Buffalo, N. Y. and Bridgeburg, Can.

In ordering, or writing for further information, please mention this Journal.

RICHARDSON'S ROSE COMB REDS

MADISON SQUARE GARDEN, BALTIMORE, HAGERSTOWN, won this season five firsts, four seconds, four thirds, one fourth, five fifths. WRITE YOUR WANTS. MEMBER RED CLUB and AMERICAN POULTRY ASSOCIATION.

M. C. RICHARDSON, JR. : Front Royal, Va.

POULTRY BARGAINS

A few S. C. WHITE LEGHORN, WHITE WYANDOTTE and BUCKEYE hens and cocks for sale cheap. Also Pedigreed Collie Puppies. Write your wants. I can please you.

MRS. H. P. HINTON

R. F. D. No. 6, Box 87-A : **Dallas, Texas**

100,000 Poultry Owners Have Been Helped by Our Great Free Book, "Money Making Poultry"—Why Not You?

A brand new edition just off the printing press—get it. The newest news about making money from Poultry. How we handle Barred Rocks here at Pittsfield is told so you can adapt our methods to your own profit in your yards. New illustrations of prize winners and high scoring birds make this feature helpful to the breeder who wants to keep up the quality of his stock. Tells you how to feed for more eggs. It is just the book you will want to read through from cover to cover, particularly if you enter our great

\$225 "First Eggs" Contest

\$50 in Gold to the customer getting his first egg in the shortest time from Pullet raised from a Breeding Pen purchased of us.
Four other classes—Earliest-Laying Pullets from our Day-Old Chicks, \$50; from our Hatching Eggs, \$50; from our 8-Weeks-Old Chicks, \$50; from Pullet bred to Cock or Cockerel bought of us, \$25.

Get Our Winter Prices on Breeding Stock

Now is the time to get new blood into your own line of poultry. Our stock is actually finer this season than ever before. You will be gratified at the possibilities of Pittsfield Strain birds as producers of strong, vigorous chicks and early-laying pullets—birds true to standard. We can send you Utility or Exhibition stock at low mid-winter prices. Our new plan of grading enables you virtually to select beforehand the stock you want. Our policy is to give you better value than you expect. You will be convinced of that if you read "Money Making Poultry." It is free. Send today.

PITTSFIELD POULTRY FARM CO.
22 Main St., Pittsfield, Me.



FOGG'S Single Comb WHITE LEGHORNS

ARE BRED FOR

HEAVY LAYING AND EXHIBITION

Get our prices on breeders and young birds. We can please you. Our breeders this season are the finest lot we ever owned. Write us early about baby chicks and eggs for hatching. Our baby chicks are the kind that live and eggs for hatching will produce that kind. Send for Booklet and mating list now.

N. V. FOGG :- Box. A :- Mt. Sterling, Kentucky

WHITE PLYMOUTH ROCKS and SINGLE COMB WHITE LEGHORNS

Prize winners at all the leading shows. WHITE ROCK eggs, \$3.00 for 15;
S. C. W. LEGHORN eggs, \$2.00 for 15.

WM. H. BURCH = Box 850-H = Charleston, S. C.

Buff=WYANDOTTES=White

The finest lot we ever raised, bred from our winners at Madison Square Garden, Cincinnati, Louisville, etc. 1000 for sale at living prices. Special prices for early buyers, on selected breeders or exhibition birds. We can furnish winners and money-makers. Write your wants.

Power & Cablish SQUARE DEAL POULTRY FARM Box 532 J, Maysville, Ky.

Buff Ply. Rocks, 'Giant' Strain Bronze Turkeys, Indian Runner Ducks

Quality backed by years of careful breeding. Our birds are winners in our hands and customers at Louisville, Cincinnati, Chicago, Boston, Indianapolis and Atlanta. If you wish quality, combined with honorable treatment, we can fill your orders and at prices most reasonable. Stock in either variety mated, no kin, and in any number. Write for prices, etc.

J. C. CLIPP == Box 700, Saltillo, Indiana

GABHART'S WHITE LEGHORNS

Line Bred. Win at the big shows, Louisville, Lexington, Cincinnati, Atlanta, Knoxville, Kentucky and Tennessee State Fairs. Old and young stock for sale of the best quality only. W. E. GABHART Box M, Bohon, Kentucky

WILL MAKE HENS LAY CHICKS GROW.

SOMETHING TO CROW ABOUT

"HEN-E-TA"

About 30% Tri-Calcium Phosphate
Popularly Called **BONE ASH**

NO OTHER BONE NEEDED

NO OTHER GRIT NEEDED

NO MORE BONE CUTTERS NEEDED
NO MORE BEEF-SCRAPS NEEDED
NO MORE CHARCOAL NEEDED
NO MORE OYSTER-SHELLS NEEDED

VALUABLE BOOKLET FREE

100 lbs. - \$2.25
500 lbs. - \$9.00

Balanced Ration Formulas Free

If you will give us your dealers name and address.

HEN-E-TA BONE CO.
NEWARK, N.J. DEPT. 8 FLEMINGTON, W.VA.

about Dec. 1, showing a large number of valuable premiums, including many silver cups and cash prizes. Judge F. J. Marshall, of College Park, Ga., will place the awards. Full information, entry blanks, etc., may be had by writing H. E. Partridge, Jr., secretary, Jacksonville, Fla.


The Poultry Exhibition of Pittsburgh will take place January 13-18, 1913, in the famous Exposition Building of Western Pennsylvania. Last year more than three thousand birds were entered and the indications are for a larger show this winter. In order to bring out the rare varieties only three birds or pens are necessary to fill a class. Ten dollars is offered for first pen, five dollars for second, and four dollars for first single, two for second. The cash prizes, as well as silver cups and other specials, may be won whether or not there is competition, provided the class or classes are filled. A handsome cup is offered for best display in every standard breed, thus placing all varieties on an equal basis. The members of the association have unanimously agreed not to show in competition, so all prizes go to the visitors. Twelve judges have been engaged. About twenty-five thousand dollars worth of stock was sold at the Poultry Exhibition of Pittsburgh last year. W. P. Craig, secretary, 303 Empire building, Pittsburgh, Pa., will mail premium list upon request.

The Southeastern Poultry Association at Charlotte, N. C., is planning a great show for January 10-14, inclusive. They are offering five thousand dollars in cash and a beautiful line of cups and ribbons and other specialties.

The American Barred Plymouth Rock Club will hold its thirty-first annual meeting and club show with them at that time, also the American Leghorn Club will hold its eighteenth annual meeting at the same time. These clubs are offering two hundred dollars in cash and nine silver cups and several handsome ribbons. The N. C. Branch of A. P. A., the N. C. Branch of Single Comb White Leghorn Club and the N. C. Branch of the American Buff Orpington Club and the Carolina Duck Club will hold their show with them.

They have planned a big banquet for one night during the show for the visiting poultrymen of which Gen. Julius S. Kerr will act as toast-master.

Prevent Roup



colds, catarrh and similar ailments from ruining your flock.

Pratts Roup Cure

prevents and cures. Use it. Keep your birds well and productive.

25c, 50c, \$1.

"Your money back if it fails."

Get Pratts Profit-sharing Booklet At dealers everywhere, or PRATT FOOD CO. Philadelphia, Chicago

Pratts

160-page Poultry Book 4c by mail.

Make somebody happy with a KODAK.

Christmas, 1912.

Catalog free at the dealers or by mail.
EASTMAN KODAK CO.
ROCHESTER, N. Y., The Kodak City.

Silver WYANDOTTES

Exclusively

THE WORLD'S BEST BREED.

Stock for Sale—Eggs in Season.

W. M. HARRIS

Johnson City, Tennessee,

State Representative Silver Wyandotte Club of America.

Barred Plymouth Rocks and White Indian Runner Ducks

Our birds are winning for us, they can win for you. Let us supply your wants. Every customer satisfied is our record. Give us a trial.

Wolf Creek Poultry Yards
Box 242
ABINGDON, VIRGINIA

PERFECTION SANITARY CIRCULAR METAL BROOD COOP



made entirely of galvanized iron which will last a life time. They are properly ventilated, and are Rat, Mink, Weasel and Skunk proof. Just the coop you are looking for. Write for circular & special introductory prices. Perfection Metal Brood Coop Co. I. H. Warsaw, Ill.

S. C. White and Brown Leghorns, "Ringlet" Barred Rocks, G. M. B. Turkeys, Rose and Single Comb R. I. Reds. Stock and eggs in season. Write us
MAPLE HILL POULTRY FARM
Route 1, Box 23, Morristown, Tenn.



200 EGG INCUBATOR, \$3.00

No freight to pay. Actual hen controls everything. No lamps, no expense, no costly mistakes. Over 550,000 sold. Thousands of testimonials. Agents wanted. Free Catalog with Special Introductory Offer Natural Hen Incubator Co., Sta. H, Dept. A1 Los Angeles, Cal.

It is also expected to have addresses by Congressman Webb and Senator Overman. Mayor Bland will deliver an address of welcome to the visiting poultrymen and there will be short talks by Mr. Hook, President of the Greater Charlotte Club and several other leading citizens.

The club is expecting five thousand entries. Inquiries are continually pouring into the office of Secretary S. H. Hackney, and he feels confident that they will pull off the best show ever held in the South.

Montgomery (Ala.) Show.

The Sixth Annual Poultry show held in connection with the Alabama Agricultural and Industrial Exposition was a complete success in every way. There were between seven and eight hundred birds competing.

The management in every department was all that a visitor could wish for, but those in the poultry department were the best set of men the writer has so far had the pleasure of meeting.

Judge D. M. Owen, of Athens, Tenn., placed the awards, to the entire satisfaction of all exhibitors attending the show with their birds. This is a splendid show center for our Southern breeders to show to their fellow fanciers what blood lines they have. The management opened their doors to the entire press; fact is, all agents could solicit subscriptions anywhere on the grounds they wished to.

The management realized and appreciated the fact that the poultry press gives them many "tips" in free advertising, and in return every press agent was made to feel that they were at home. We were not at the Birmingham show, but several press agents at the Montgomery show were and reported to the writer that the management at Birmingham treated them a little bit cool and shabby—compelled them to pay for space and then confined them to their respective booths. When it comes to the point that a show will not do the fair thing by the poultry press they are getting into a very unpleasant position and we hope, in the future that the Birmingham management will do better by men and women who are helping the cause of more and better poultry. —J. A. Thornhill.

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My World-famous high-quality incubators and brooders, and my Free Poultry Lessons make success easy and sure for you!

SUCCESSFUL INCUBATORS AND BROODERS

are made right and with the free advice and lessons I give my customers no one can possibly fail to make the biggest hatchery of strongest chicks. Write me. A postal brings all facts, book, prices and proposition. "Proper Care and Feeding of Chicks, Ducks and Turkeys" sent for 10c J. S. Gilcrest, Pres. Des Moines Incubator Co. 364 Second St., Des Moines, Iowa




Poultry Profits Doubled

CAPONIZING bring the largest profits — 100% more than other poultry. Caponizing is easy and soon learned. Capons sell for 30c. a pound, while ordinary poultry brings only 15c. a pound. Progressive poultrymen know these things and use

PILLING CAPONIZING SETS

Sent postpaid, \$2.50 per set with "Easy-to-use" instructions.

We also make Poultry Marker, 25c. Gape Worm Extractor, 25c. French Killing Knife, 50c. Booklet, "Guide for Caponizing," FREE.

G. P. PILLING & SON CO., 23d & Arch Sts., Philadelphia, Pa.



SINGLE COMB REDS

CALLAHAN & SON, EAST POINT, GA.

WE ARE PRODUCING BETTER REDS EACH YEAR

STOCK AND EGGS

FANTAIL PIGEONS ALL COLORS

CATALOG — FREE —

"QUALITY" OUR MOTTO

Crown Bone Cutter



FEED your hens cut green bone and get more eggs. With a Crown Bone Cutter you can cut up all scrap bones easily and quickly, and without any trouble, and have cut bone fresh every day for your poultry. Send at once for free catalogue.

WILSON BROS., Box 816, Easton, Pa.

Best Made—Lowest in Price

BROWN FENCE

For Poultry

Costs less than netting. Lasts 5 times as long. Is stock-strong and rust-proof. Bottom wires only one inch apart. No top or bottom boards needed and fewer posts. SOLD DIRECT FROM FACTORY AT BARGAIN PRICES—FREIGHT PREPAID 150 Styles for Poultry, Stock, Lawns and Cemeteries. Gates to match. Send now for Catalog.

Dept. 37 The Brown Fence & Wire Co., Cleveland, O.

FARM FENCE

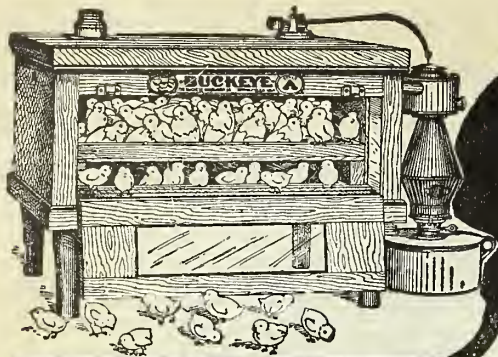
11½ cts. a rod for a 26 in. high hog fence; 16 1-2c. a rod for 47 inch high stock fence; 23c a rod for a 50-inch heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barbed wire, 80 rod spool, \$1.40. Catalog free. INTERLOCKING FENCE CO. BOX 36 MORTON, ILLINOIS.

Single Comb Brown Leghorns

Exclusively.

We are breeding what we believe to be the true type of Brown Leghorns. We use the single mating plan, and produce both males and females that have style and shape. The females are very near standard color, and the males are of the orange yellow type, with good striping. We have not lost sight of the utility side in producing feathers and style, but have developed a splendid laying line of Leghorns combined with good color and style. These birds will be heard from in the shows. Promptness our specialty.

STURTEVANT BROS., Brown Leghorn Farm, Box 12, Kushla, Ala.



Anybody can Hatch Chickens with a Buckeye

Yes, anybody. Do you get that? Means YOU. Makes no difference whether you have ever used an incubator or not. Means YOU all the more if you have tried them and had poor hatches and bad luck generally. YOU can—anybody can—hatch chickens with a Buckeye.

Every Buckeye Incubator is guaranteed to hatch every hatchable egg—unconditionally guaranteed. A beginner can get successful hatches.

Just because you and anybody CAN hatch with a Buckeye, one-third of a million Buckeyes are in use today. Last year alone 100,000 were sold. Every fifth incubator sold last year was a Buckeye. More Buckeyes than any other two makes.

When you buy a Buckeye you are shown how to run it—personal help. No trying to study how from a book of complicated directions, using unfamiliar terms. But Personal Help that enables you to get good hatches from the start. You do not want to spend good money for costly settings of eggs, and then have them spoiled because you did not know how to use your incubator right.

See the 1913 Buckeye As low as \$8.00

You can SEE a Buckeye before you buy. Learn all about it. See how it works. Satisfy yourself that you want it—and all before you buy. Let us send you the name of our dealer nearest you, where you can see our 1913 line of Buckeye Incubators. Five sizes—60 eggs up to 350 eggs—a complete line. Equipped with every desirable device to add to incubator efficiency. The big thousand-egg machines use the same principle of construction as the Buckeye—a perfected system that makes the Buckeye the world's best hatcher. The 1913 line of Buckeyes is better than ever before in our 22 years' experience. Now is the time to investigate. Don't delay. Get the facts, so when the time

comes to buy, you will have determined what you want and not lose time then.

Get the Buckeye Catalogue

Our new catalogue is a clincher. It states facts simply, convincingly and briefly. It is an incubator catalogue, talks incubators right through, and shows you that if you keep chickens, you not only need an incubator, but you need a Buckeye Incubator. Write today for this book. You will realize that reading it will be time well spent. We will tell you how and where you can see a Buckeye at work.

We stand ready to help you and to answer your questions. Address

THE BUCKEYE INCUBATOR CO., 525 Euclid Avenue, Springfield, Ohio

24 LEGBANDS FREE

MAKE YOUR HENS PAY



We send free 24 of the best Leg Bands made to every new and renewing subscriber to *The Industrious Hen* at 50c. 36 Bands will be sent with a three years subscription for \$1.00. If you are already a subscriber you may renew; or if you will get your neighbor to send 50c for his subscription, we will send a dozen Leg Bands to each. Enclose money order or stamps. Mention "Leg Bands" when subscribing under this offer.

INDUSTRIOUS HEN CO., Knoxville, Tenn.

Our Breeders and Their Birds

Mr. Harry Callicott, of Caldwell, Miss., informs us that on five entries of White Orpingtons at the Jackson (Miss.) State Fair, he won four prizes: Two firsts on hen and pullet, third on pen and fourth on pullet.

The Rockwood Farm, Norwalk, Ohio, had twelve birds entered at the Atlanta (Ga.) Show, which closed Nov. 2. On these entries Mr. Mead won 2d cock, 1st hen, 1st and 2d cockerels, 1st pullet and 1st pen. The number entered in the class were 2 cocks, 8 hens, 6 cockerels, 8 pullets and 6 pens. These winnings indicate the fact that Mr. Mead's Partridge Rocks are birds of quality.

We show this month on front cover of *The Hen*, a "Brown Beauty" hen, property of J. H. Henderson, Knoxville, Tenn. This hen won 1st prize at the Great Central Show of the

South (Ga. Poultry Association), held October 28-Nov. 5, 1912, Atlanta, Ga. Mr. Henderson won 2nd pen also—only two entries. It takes a "Brown Beauty" to beat a "Brown Beauty."

Mr. Louis Lee Haggin, proprietor of the Russell Cave Poultry yards, Lexington, Ky., informs us that his winnings on White Orpingtons at the Texas State Fair, were as follows: 1st, 2d 4th cock; 1st, 2d, 5th hen; 1st 2d, 3d cockerel; 1st, 2d, 3d, 4th pullet; 1st and 2d pen. There were 153 Orpingtons in this class. Judge Keeler, who judged, pronounced Mr. Haggins's birds to be a very strong and uniform strain of Orpingtons.

Mr. J. H. Wendler, proprietor of the Rose Lawn Farm, Lakeland, Fla., has recently purchased the entire flock of Blue Orpington Ducks of the Sunwick Poultry Farm, together with good-will, winners, ribbons and business. These ducks have fine laying qualities and are one of the most useful breeds in the world. They have a large carcass, are heavy layers and small eaters, and very beautiful. Mr. Wendler's ad appears elsewhere in this issue and if you are in the market for ducks, write him before buying.

Mr. Warner Lewis, of Como, Texas, the specialty breeder of S. C. Rhode Island Reds, informs us that he has some Cockerels that will win anywhere. He also says that his matings for 1913 will be the best in the South.

The Buschmann-Pierce Red Farms, Carmel, Ind., have just sent us a copy of their R. I. Red catalogue. The book contains valuable information on poultry culture, and is tastefully gotten up. Every one interested in poultry should have this catalogue, which will be sent by the above firm for 20c; cash or stamps.

A lively little Plymouth Rock hen, angry at having her luncheon disturbed, prevented Waldo Thomas, of Big Rock, Ill., from winning honors as the world's champion plowman at the annual Wheatland plowing match the other day.

Thomas drew his furrow straight and true until the hen interfered. She was picking up a succulent dessert from the freshly turned sod when Thomas drove his sulky plow along. Then she flew into the air beneath the noses of the horses with an angry clatter that made the team swerve. Thomas' furrow was crooked and he knew he had lost.—Atlanta Georgian.

THEIR FALL WINNINGS.

Following is a list of winnings of Hermitage Farm, Hendersonville, Tenn., as furnished us by them:

Kentucky State Fair, at Louisville, on six entries, 1st and 2nd drake; 1st, 2nd and 3rd duck.

Tennessee State Fair at Nashville, in the largest class of White Runners ever shown, we won 1st and 3rd drake; 1st, 2nd, 4th and 5th duck; 1st, 2nd, 3rd, 4th, and 5th pens; and five specials.

Alabama State Fair, Birmingham Ala., we won 1st pair, 1st drake, 1st

LaFollet's WEEKLY MAGAZINE

and *The Industrious Hen*, both one year, and a copy of "Hen and Chicks" for \$1.25. Send orders to *The Industrious Hen*, Knoxville, Tenn

ANCONAS and WHITE MINORCAS

We have some fine young stock for sale at prices that are certainly tempting. Just drop us a postal and let us tell you about them. Our best have made the best records in the big Southern Shows for the last three years, and were among the top pens in the big Kentucky Laying Contest. We want to close out our White Minorcas at once, in order to make room for young stock next season.

DISMUKES & ARRINGTON

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Castalian Springs, Tennessee

Healthy Hens

are always profit payers.

Pratts' Poultry Regulator

insures perfect digestion, vigorous health and more eggs.
25c, 50c, \$1; 25-lb. Pail, \$2.50
"Your money back if it fails."
Get Pratts Profit-sharing Booklet.
At dealers everywhere, or
PRATT FOOD CO.
Philadelphia, Chicago.

Pratts

160-page
Poultry Book
4c by mail.



125 Egg Incubator and Brooder Both For \$10

Why pay more than our price? If ordered together we send both machines for only \$10.00, and pay freight charges East of Rockies. Hot water, double walls, dead air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery under egg tray. Incubator and Brooder shipped complete with thermometers, lamps, egg-testers—ready to use when you get them. Five year guarantee—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today, or send in your order and save time. Money back if not satisfied. Write us today. Don't delay. [12] **WISCONSIN INCUBATOR CO., Box 57, Racine, Wis.**

Association—we entered one pen, cockerel and four pullets. There were something over forty pullets in the class, the competition being rather strong for our first show. However, with this entry, we won 2nd, 4th and 5th pullet, and 3rd pen prize. This we feel very proud of. The trios mentioned in our ad. for \$10.00 to \$25.00 were raised from this pen with a few more pullets added to the pen, which were sisters of the winning pullets and their equal in nearly every respect. These trios are unusual values for the money and we feel certain that such values can hardly be found.

Wm. Cook & Sons, originators of all the Orpingtons of Scotch Plains, New Jersey, have been in the South for a few weeks, or rather Mr. Percy A. Cook has, and he is the whole firm of the above name. They showed at Memphis, Tenn., winning in Black Orpingtons, first cock, first pen, first hen, second pullet, second cockerel. In Buff Orpingtons, first pen, first hen, first pullet and first White Orpington cockerel; during the same week up North, they won every first prize with their Orpingtons at Trenton, with one exception, and many firsts at Allentown, Pa., the first prize Buff Orping-

duck, and 1st pen, and three specials. Mississippi State Fair, Jackson, we won 1st and 4th drake; 2nd and 4th duck; 1st pullet; 1st pen, and three specials.

Louisiana State Fair, Shreveport, La., we won every first and special offered.

We are also going to show at Chicago, Indianapolis and Louisville next month.

C. J. Logan, of the Alma Poultry Farm, Birmingham, Ala., in a recent letter to us had the following to say in reference to his White Orpingtons:

Our original stock was from Dr. C. C. Goodes, of Marcellus, Mich., who has built up such a reputation for birds of the real Orpington type. Dr. Goodes recently sold out to the Aldrich Poultry Farm, which is proof of the quality of his stock. At our show here last December—Alabama Poultry

WHITING'S PARTRIDGE PLYMOUTH ROCKS

DO YOU want fowls for egg-producing purposes? You might, of course, go in for some egg-machine. But these birds are too small to be money makers. Then try Partridge Plymouth Rocks. They are a big bird, handsome and desirable. At egg production they are second to none. In a year's egg-laying contest six hens produced 1,320 eggs. They won the first prize. My stock is straight from the fountain-head, Noftzger. Eggs \$5.00 a setting. Address care Georgian, Atlanta, Georgia.

—PERCY H. WHITING.



A few of the cups given by Wm. Cook & Sons, Originators of all the Orpingtons, Scotch Plains, New Jersey, for the best Cook Orpington in a show. This is one way this firm takes care of their customers.

The SOUTHERN PLANTER

The South's Oldest, Largest and Best Farm Magazine, and THE INDUSTRIOUS HEN, both one year for 50 cents.

INDUSTRIOUS HEN CO., Knoxville, Tenn.

KELLERSTRASS Crystal White Orpingtons

Splendid trios, low blocky type at \$10.00 to \$25.00 per trio. These birds bred from our last year's winners; the low, blocky type so much in demand and so hard to get. Several hundred to select from. Shipped on approval. Eggs in season.

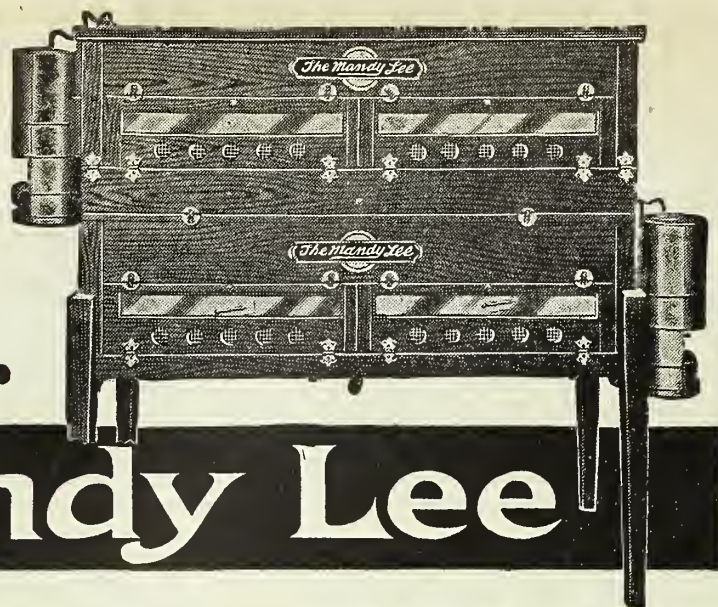
ALMA POULTRY FARM

R. F. D. No. 4 Birmingham, Ala.

New Sectional
Bookcase
Style—

600 Egg
Incubator

Mandy Lee



**Not Merely Fresh Air, Heat and
Moisture—but Right Proportions—**

That is the great difference between the Mandy Lee incubator and other incubators. A certain *definite relation* exists between heat, ventilation and moisture. The incubator that does not recognize this principle is hatching at random. The Mandy Lee Incubator recognizes this principle and applies it automatically. The Mandy Lee *regulates* moisture as it regulates heat. If heat goes up, moisture goes down. That is when more fresh air is required. The Mandy Lee supplies it. When heat is low, moisture must be high. The Mandy Lee does all this automatically.

The Triple Automatic Regulator

Does Not Make Mistakes

You can depend upon it while you are away or while you sleep. It relieves you of worry. You do not have any doubt as to what to do. *Actual figures* as to proportions of heat and moisture show plainly on the thermometer and hygrometer. You simply follow plain rules. No chance for mistakes.

The New 600 Egg Mandy Lee

is the ideal equipment for large poultry raisers. Less room is required than with ordinary "giant" incubators and there is a great advantage in heating. Additional sections may be added above at any time. Operate either section alone or both at once. Hatches may come off at different times. Equipped with the Mandy Lee new principle Triple Regulator and air-circulating device, open-front-poultry-house plan of ventilation, etc.

Use Germozone for Chick Health. The national remedy for *Roup, Colds, Canker, Bowel Trouble, etc.* Cuts chick losses 90%. Great remedy for fowls of all ages. Given in drinking water.

Lee's Up-to-date Books, covering Incubators and Poultry Supplies, with information for live poultrymen, are free. Write for copies.

GEO. H. LEE CO. 1113 Harney St., Omaha, Neb.

**The Incubator that Measures
Moisture as well as Heat**

WHITE ORPINGTON SALE

JACKSON STRAIN—A dandy bunch of single birds, trios and pens from my Memphis, Jackson and Tupelo winners. I ship all birds on approval. Money back if not satisfactory. My birds have the winning and laying habit and can't get rid of it. Try them.

HARRY CALLICOTT -- Coldwater, Mississippi

Show Birds---Breeder's

If you are looking for fine stock in S. C. White and Brown Leghorns, White Wyandottes, Barred Rocks, S. C. Black Minorcas, Light Brahma, Cornish, S. C. Rhode Island Reds, White Cochins, Bantams, Mammoth Pekin and Indian Runner Ducks, then write us. Our prices are reasonable, quality considered. Breeders for the past 19 years.

NEVIN POULTRY YARDS, Wardin Bros., R. 7, Charlotte, N. C.

WHITEWASHING
and disinfecting with the new
"Kant-Klog" Sprayer
gives twice the results with
same labor and fluid. Also for
spraying trees, vines, vegetables,
etc. Agents Wanted. Booklet free.
Rochester Spray Pump Co.,
206 Broadway, Rochester, N. Y.

ton pen there being the sensation of the show. Mr. Cook states that the sales for Orpingtons is far greater than ever. His first prize Black Orpington pen was sold at Memphis for \$500; he sold \$1500 worth of Blacks at that show. Arriving at Birmingham, he found so many of his customers competing, that he withdrew his birds from competition, leaving them for display only; he was well rewarded for this, as he sold \$6,000 worth of Orpingtons at this show; we believe that to be a record for sales at one show. Mr. Cook also judged the Orpingtons at Macon, Ga.

Mr. Asa Candler of Briarcliff Farm, Atlanta, Ga., won both at Birmingham and Macon the cups offered for the "Best Cook Orpington" in the show given by Wm. Cook & Sons, originators of all the Orpingtons. Nearly all firsts not won by Mr. Cook are won by his customers—A good hint as to where the best Orpingtons can be obtained.

The Aldrich Poultry Farm of 5096 N. High St., Columbus, Ohio, have purchased the entire flocks of S. C. White Orpingtons owned by Sunswick Poultry Farm, South Plainfield, N. J., and Mr. E. B. Rogers, Cincinnati, Ohio, together with the good will. Among these birds are the famous Champion Madison and Lady of their shows, and the winners at Madison Square Garden, Allentown, Augusta, Baltimore, Hagerstown, and Indianapolis, as well as practically all the winners at Chicago during the last two years. These birds added to their already large number of winners at last year's shows, in addition to those from Allentown, Atlanta, and Augusta this season now makes the Aldrich Poultry Farm easily the Quality White Orpington Farm of the world. Their motto is "Quality above all else" and their customers' winnings in all the large shows so far this season plainly show this.

The Sunswick Farm have decided to breed only the one color, Buff Orpingtons, as they realize only the highest quality can be bred by specializing in one variety. Mr. Rogers' poultry business was increasing so rapidly he found if he continued the business he would have to devote his entire personal attention to it, and he could not afford to give up his large manufacturing interests, so decided to dispose of his flock of White Orpingtons to the farm which was prepared to devote all the personal attention of its three members, which, in addition to the help of one of England's greatest poultrymen as Superintendent, now places the Aldrich Farm at the top in

BEST FOR LAYERS **RAINBOW** **BEST FOR TABLE**
PARTRIDGE ROCKS
THE ROCKWOOD FARM, BOX T NORWALK, OHIO

White Orpingtons. The same degree of satisfaction is assured to all the former customers of Sunswick Farm and Mr. Rogers and at prices even lower than ever before, which the increased facilities of the Aldrich Farm now permit with their flock of over 2,000 high quality birds.

If in need of the best quality of White Orpington stock or eggs send for their handsome new catalogue with color plates, and which is the finest Orpington catalogue ever published. It is free to those who mention this journal.

Patton's White Runners Win Again.

J. C. Patton, of Charlotte, N. C., writes us that he has just won first young pair at the "Premier Show of the South," at Augusta, Ga., his pair winning first in a class of twenty pairs, both pure White and Fawn and White competing. Writing of Mr. Patton's first prize drake at this show, "Uncle Frank," poultry editor of the Augusta Chronicle, says: "The best duck in the show was easily the young White drake that won first. He was a beauty in station and carriage."

Judge Loring Brown, one of the best duck judges in America, had this to say of Mr. Patton's first prize drake at the recent Hagerstown Fair: "That young drake was in a class to himself, and the only Indian Runner in the show; or that I ever saw; that is, he was my ideal of what one should be."

Mr. Patton has recently imported, at tremendous expense, two consignments of White Runners from the fountain head of all true Runner blood in the world today, and he claims to possess the best White Runners in America.

THE USEFUL QUAIL.

The natural life of a quail is about 10 years, so that each of these birds may be supposed to eat during its lifetime 7,500,000 insects and 60,000,000 weed seeds. Yet, there are thousands of men who delight to go out in the fall and kill every quail they can find! A dead quail is worth in the market possibly \$1. A man may eat it in a few minutes and forget it. What a shameful ending for so faithful and so valuable a friend of mankind!

A few years ago there were millions of quails all over the Southern, Middle and Eastern States. Today they are almost extinct everywhere.

A pair of Bob Whites in domestication have produced 100 eggs in a season. Five hens laid an average of 65 eggs apiece.

To hold the insects in check and to destroy the weed seeds we need to have our gardens, fields, pastures and roadsides literally alive with these useful birds.

A prairie chicken killed in a cotton field in Texas had in its stomach the remains of over 300 cotton boll weevils.

A few years ago there were millions of prairie chickens in all the prairie states. Today they are absolutely extinct in several States and on the verge of their finish in all the others.--Farm News.

If you have a system in caring for your poultry you will win.

SIMPLEX BROODER STOVE

Increase Your Profits
by decreasing mortality

No Wick

No Gas



No Fumes

No Smoke

1,500 chicks successfully brooded around one stove

Raise More Chicks with Less Work and Raise Them Not Bury Them

You know how frightful the losses are.

You know your expense for brooders and hovers.

You know the hours of hard labor cleaning and caring for them.

Now we want you to know how to save 90% of the work, 75% of the operating expense, 80% of the investment required and raise 20% to 50% more of your chicks.

"Can handle a 1000 or more easier than 200 before."

"Glad to recommend—do not worry—easy to control."

Write today for illustrated descriptive catalogue of our Simplex Brooder Stove which will tell you how easily these problems can be solved, and what small expense. The catalogue is free. You owe it to yourself to just write for it.

Simplex Brooder Stove Co. 122 Fourth Street
GRAND RAPIDS, MICH.

Crystal White ORPINGTONS KELLERSTRASS STRAIN

Sacrifice Prices—On yearling hens and April chicks, \$1.50 each. Registered Collies, \$2.00 up.

COMO CHIX YARD ·· T. P. WOOD, Prop. ·· Como, Tennessee

DUMARESQ BUTTERCUPS

THE RIBBON WINNERS

From original, imported fowls. Famous all over the country. Stock and eggs for sale. Exhibition birds a specialty. PARTICULAR ATTENTION PAID TO FOREIGN SHIPMENTS. SEND FOR CIRCULAR AND PRICES.

MRS. J. S. DUMARESQ
CATO'S HALL ·· **EASTON, MARYLAND**

Vice-President American Buttercup Club.

NOTICE To The PUBLIC

States, If you want thoroughbred stock, the greatest layers as well as 1st prize winners at the World's greatest and largest duck shows, write us. Free photo of our imported stock.

We have recently received an importation of Indian Runners direct from the true India duck. The only true Indian Runners in the United States. We are the only importers in the Southern States. We are the only importers in the Southern States. We are the only importers in the Southern States.

CLAYTON I. BALLARD, White Pine, Tennessee



INDIAN RUNNER DUCKS
The greatest layers on earth; 300 eggs per year. Send 10 cents for beautifully illustrated booklet No. 69 Tells how to raise ducks successfully. **WOMAN'S COLLEGE, Meridian, Miss.**



Water Fowl and Turkeys

DUCKS FOR SHOW.

The little Indian Runner has "caught on" wonderfully of late years as a show duck, and although it may be successfully bred without swimming water of any kind, exhibition specimens are undoubtedly better for it. Most judges nowadays are favoring an upright, sleek, penguin-like type of Runner, with a lithe body and generally active demeanor, and no doubt they are so far right in doing so. The character of any breed must be rigorously maintained and its peculiarities perpetuated, but a word of caution is never out of season for breeders are very apt to go beyond the bounds of the ideal and to create a monstrosity with nothing but the curiosity which it invites to support it. The Indian Runner is a good breed for the beginner to start on, for it is not difficult to produce very fair specimens, and it is one whose prospects at present seem to be very promising. The well defined areas of white and fawn which constitute the color of the plumage are very attractive, and the breed will thrive almost anywhere, but exhibition specimens must have a good range. Fields or park-land, so long as there is a pond or stream within reach, will both suit Runners admirably, and from their earliest days the exercise which they naturally delight in is very essential. Exhibition specimens of this breed should be fed somewhat lightly on a grain diet, which tends to harden the set of the plumage, and to prevent any tendency to bulkiness and weight. With the heavier breeds, of course, a good proportion of soft food is more



J. H. HENDERSON, Knoxville, Tennessee
BREEDER
BROWN LEGHORNS
SINCE 1890
Experience Counts
YOUNG and OLD STOCK FOR SALE

White INDIAN RUNNER DUCKS

THE MORTGAGE LIFTERS

Flock headed by Madison Square Garden, New York, first prize pen. Few pens, trios, and drakes for sale. Booking egg orders for Spring delivery.

JEFFERSON POULTRY FARM, Albany, Ga.



S. C. WHITE LEGHORNS, INDIAN RUNNER DUCKS, RUFUS RED, BELGIAN HARES.

Stock and Eggs for sale at all times. Send 3c in stamps for booklet and catalogue, tells how to make these breeds pay.

Kling & Hawkins, Poultry Yards and Rabitry. Box "E"

Meridian, Miss.



We beg to announce to the poultry world the purchase of the entire flock of Blue Orpington Ducks of the Sunswick Poultry Farm, together with their ribbons, winnings and good will.

These Blue Ducks are the equal of the Buff Orpington Ducks and when combined with our choice lot of Buffs places us in front ranks as Orpington Duck breeders. We can supply stock and eggs from either, and solicit your correspondence.

J. H. WENDLER Roselawn Farm, Lakeland, Fla.



RHODES' WHITE INDIAN RUNNER DUCKS

ORIGINATOR OF THE RHODES STRAIN

Great layers of large white eggs. Can spare a few choice breeders. Eggs, \$5.00 per 12.

MRS. A. N. RHODES

New Castle, Ind.

WONDERFUL INCREASE IN EGG PRODUCTION

"I had thirty hens giving only three or four eggs per day. After using your remedy my returns from the same hens were remarkable, running up to 18 eggs per day within eight days. I am satisfied you have a formula that is scientifically constructed and will bring fine results."

Athens, Tenn.

DR. K. J. SCHUMAN.

May 25, 1912.

The formula used in

OWEN'S Ideal POULTRY REMEDY

and EGG PRODUCER

was secured from D. M. Owen, one of the country's greatest poultry judges and breeders. It is a perfect tonic, a sure cure and preventative of Roup, Cholera, Sorehead, etc., and a wonderful stimulant to the egg-producing organs. Life to growing chicks.

In 25c cans and 25-lb. \$3 buckets. If your dealer won't supply you, write us.

Money back if not satisfactory

Booklet and pocket book free on request

Blackman Stock Remedy Company
Chattanooga, Tenn.



desirable for obvious reasons. Stock or exhibition birds should not be run in big lots together, and that is to be particularly avoided when, as in growing birds, size is to be promoted. Comfortable houses, well-ventilated, dry, and clean, are essential to success in breeding show ducks, and one should accustom the latter to be as tame as possible, so that handling will not frighten them. In the actual preparation for show ducks do not require so much attention as other fowls, and that is a great consideration. They must, of course, be clean, that is absolutely essential. They should be in good condition, which means health. The heavier kinds will generally be tame enough and require no preliminary drilling in a show cage, but Runners are often the better for a little training. The autumn is the best time of the year to begin duck-breeding, and the best advice that can be offered to those about to start is this: Go in for a popular variety that is suited to the locality. do not attempt more than one breed, buy the very best procurable, and remember that a really good drake and two ducks are worth scores of inferior birds.—Inland Poultry Journal.

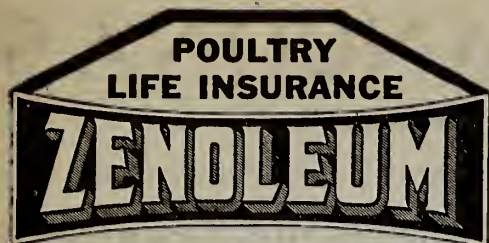
One of the features of the poultrymen's harvest is the hens shelling out the eggs.

After months of hard weather, the chirp of the spring chick is heard chirping its little tune of joy.

SNOWFLAKE WHITE INDIAN RUNNER DUCKS

Prize winners Always. Heavy layers of pure white eggs. Breeding and young stock for sale.

MRS. E. E. ESHBACH
1402 Sturm Ave. : INDIANAPOLIS, INDIANA



KILLS LICE AND MITES

DISINFECTS the Hen House, Brooder and Incubator. CURES Roup, Scaleg Leg, Canker, Cholera, etc. PREVENTS White Diarrhoea. Sold by most live Dealers. Ask your Druggist, Poultry Supply Man, Hardware or Feed Store.

Great Book, "CHICKEN CHAT," Free if you ask for it.

THE ZENNER DISINFECTANT CO.
201 LAFAYETTE AVENUE. DETROIT, MICH.

Poultry Disease Department

By J. A. THORNHILL, Hartselle, Ala.

Q.—Last spring I bought a setting of eggs from a party in Tennessee who advertised in your journal. I paid fifty cents extra for eggs from one of his prize pens; got four chicks out of 15 eggs—three roosters and a pullet. The roosters were very pretty, but the pullet wasn't so good. They were Barred Rocks. They grew nicely until 3 months old, when, one day I noticed one fall over and upon picking it up discovered that it was nothing but feathers. They had good appetites from the shell up to the day I found the one unable to stand. Upon examining the other three, I discovered that they were in the same condition, and in several weeks all died. The livers and gizzards of these chicks appeared in a healthy condition, so were the intestines, and crop was full of the food I was then feeding them. I have been told they had consumption. What do you think about it? I have a large flock of healthy stock and none of them were afflicted like the four out of the setting of eggs I purchased.—Mrs. T. M., Strain, Birmingham, Ala.

Ans.—If you gave the same feed and attention to these chicks as that given your general flock and the same chance for lice to be on both lots, they had what is termed "growing light," or as you term it, "Consumption." Often chicks become unable to stand and have what is termed "leg-weakness," but with this disease, the patient is generally found to be very plump and fat.

Q.—I have 10 acres of pasture land, most of which has Southern slope. I wish to use part of this land for poultry yards. Am going in for eggs at present and will use Brown Leghorn hens. What number of hens to flock will give the best results and what size coop is best for the number you think should be in each yard? Would they do well to allow entire flock free range, with movable roosting coops for them. I expect to in-

OWEN FARMS

OUR WIN AT NEW YORK,
MADISON SQUARE GARDEN,
LAST SHOW

BUFF ORPINGTONS: Five Firsts, including 1st Cock, 1st Hen, 1st Cockerel, 1st Pullet, 1st Pen, making first in all the classes, and also 3d Cock, 4th Hen and 6th Cockerel.

WHITE ORPINGTONS: Three Firsts, 1st Cockerel, 1st Hen and 1st Pen; also 2d Pen, 3d and 5th Cock, 6th Hen and 3d Pullet.

BLACK ORPINGTONS: One First, 1st on Cockerel, and also 5th Hen and 5th Pen.

WHITE ROCKS: Four Firsts, 1st Cock, 1st Cockerel, 1st Pullet and 1st Pen. 2d in all five classes, Cock, Hen, Cockerel, Pullet and Pen. 4th and 5th Cock, 4th Hen, 5th Cockerel, 4th Pullet, and on Pen we won every place but 4th, making our Pen winnings, 1st, 2d, 3d, 5th and 6th.

BARRED ROCKS: In this variety no exhibitor won more than one first. We won 1st Pullet, which was awarded the Shape Special and also won the Championship for best female. We also won 4th Pullet and 2d Hen.

This made a grand total of 27 Firsts, 12 Seconds,

total number of birds winning under ribbons at this famous and largest show in America of 139. We submit to you frankly this question: Could any other farm than Owen Farms possibly be in a position to do more for you than they can? We answer it for you by saying it is not possible. With 8000 young birds, and 2000 older birds for the cock and hen classes, possessing all the quality that their New York winners have made possible, they can and will do more for you than any other farm possibly could.

Whether you are rich or poor, a large breeder or a small breeder just beginning, makes no difference to us. Our price on a particular bird is the same to all. We necessarily have birds that will fit your needs, however

WM. BARRY OWEN, Prop.
MAURICE F. DELANO, Mgr.

OWEN FARMS

408 William Street
Vineyard Haven, Massachusetts

WHITE WYANDOTTES: Three Firsts, Cock, Cockerel and Pen. Also 3d and 4th Cock, 2d, 3d and 5th Hen, 2d Cockerel, 2d and 3d Pullet, and 2d and 3d Pen, giving us the first three awards on Pen.

SINGLE COMB REDS: Three Firsts, 1st Cockerel, 1st Hen, 1st Pen. Our 1st Hen also won the Shape Special. We also won 5th and 6th Cock.

ROSE COMB REDS: Two Firsts, 1st Cock and 1st Pen. Our 1st Cock was the Champion Male of the show. We also won 3d Cock, 2d and 6th Hen.

SILVER PENCILED ROCKS: Four Firsts, Cockerel, Hen, Pullet and Pen. Also 3d Cock, 5th Hen, 4th Cockerel, and 3d and 5th Pullet.

COLUMBIAN WYANDOTTES: 1st and 4th Pullet and 4th Pen.

11 Thirds, 9 Fourths, 10 Fifths and 5 Sixths, and a

large your show and particular your requirement, or however modest may be your intention to commence breeding or exhibiting. There is no one interested in poultry who is desiring to purchase whom we cannot and will not give our very best attention to and try to carry out to its utmost the golden rule, namely, that we will do exactly by you as we would be done by.

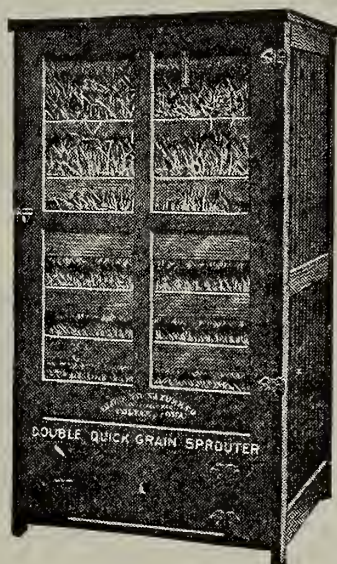
Our catalogue containing 131 pages of illustration and interesting matter will be gladly sent you upon request. We only ask you to write early for exhibition birds. It takes time to select, wash, fit and coop-train, and correspondence consumes more or less time inevitably.



THE BEST IN THE SOUTH
MY WHITE PLYMOUTH ROCKS
WRITE FOR ILLUSTRATED PRICE LIST
W. J. BRINKLEY, Iuka, Miss.



SPROUTED OATS-WINTER EGGS



Get ready for the highest price for eggs this season the poultry industry has ever seen.

For prolific egg production this winter and fertile eggs next spring, feed Sprouted Oats. To get great quantities of sprouted oats easily and quickly, buy a

Double Quick Grain Sprouter THE PERPETUAL POULTRY SILO.

A veritable hot-house, growth-forcing machine that sprouts in 24 hours and grows two inches or more daily.

Makes two to four bushels of feed from one of grain.

The Double Quick is the original grain sprouter, now in its third season, several thousand being in use in every part of the United States and Canada and is endorsed by hundreds of users.

Our catalogue will give you scores of letters like the following:

October 7, 1912—"On September 16th I ordered your No. 5, Double Quick Sprouter to be sent to Maude L. Kaler, Columbia City, Ind., and this one is proving so satisfactory that she wants another one of the same size, and therefore, you will find draft in payment of this second Sprouter.—Milo R. Meredith, Wabash, Ind.

September 14, 1912—"I ordered and received from you last fall one of your 5-tray Grain Sprouters. This works very satisfactorily but is far too small to meet my requirements. I want one that will sprout for 1,500 hens. Will you kindly advise me by return mail if you make a larger size and the price of the same."

Later—September 23—"I have your esteemed letter of Sept. 16th with enclosures. I enclose you my check for which please ship me, RUSH, one of your No. 6 Grain Sprouters.—E. A. Palmer, Providence, R. I."

Feb. 26, 1912—"I am enclosing my check for your No. 5 Double Quick Grain Sprouter. Please ship by express. I wish to get one of these machines going at the earliest moment. As soon as I have tested this one and find it satisfactory, as I expect I shall find it, I will give you an order for more."

Later—April 27—"I am enclosing my check for two more of your No. 5 Double Quick Sprouters. The one I bought some weeks since is doing good work."—C. H. Latham, Beauty and Utility Barred Rocks, Lancaster, Mass."

Irwin A. Rush, Phillipsburg, N. J., writes: "I am more than pleased with the Double Quick. We had some very cold weather here for some time but I had one tray a day of sprouts from 3½ to 4 inches long."

M. O. Richardson, Plattsburg, Mo., writes: "It is the greatest trick ever. It grows oats 10 inches high in six days. I am well pleased with it."

David Schwertner, Ottawa, Ohio, says, "Last fall I got one of your Grain Sprouters and used it last winter and had good results for the weather we had. It was zero weather nearly all the time but my chickens laid from 3 to 4 dozen eggs right along and I can say the oats did it, for the people around here didn't get any eggs last winter."

Made in Six sizes from a few hens to 1,000. Send for the complete Double Quick catalogue. It will Pay you.

CLOSE-TO-NATURE CO. 28 FRONT STREET
COLFAX, IOWA



QUINTESSENT ANCONAS

Show Birds and Breeders for Sale. Winter Layers

Winners at Madison Square, Philadelphia, Baltimore and Elsewhere

H. E. PORTRUM

..

..

..

Rogersville, Tennessee

SINGLE COMB

Crystal White Orpingtons

KELLERSTRASS STRAIN

Very Fine Cockerels for Sale, price \$2.50 to \$15.00.

FLORIDETTE FARM :- Hilliard, Florida

MOTTLED ANCONAS

Never a better time than now to get good stock at low values

COLE & GEORGE :- Atlanta, Georgia

MEMBERS INTERNATIONAL ANCONA CLUB.

McDANELL'S FAMOUS.... COLUMBIAN WYANDOTTES

My strain, which is among the oldest in existence, is showing many of the choicest specimens we have ever seen in COLUMBIANS. Remember they have made the very highest winnings at Chicago, Hagerstown, Atlanta, Louisville, Indianapolis. I can please you in every way. My GOLDEN WYANDOTTES are acknowledged by all as the best in the country.

OLD HOMESTEAD FARMS J. H. Mc A'ELL, Prop. WARSAW, KENTUCKY

S. C. LEGHORNS WHITE..... INDIAN RUNNERS

English Penciled
100 BREEDERS

Best strains in America. Exhibition stock of all varieties. Day Old Chicks and Ducklings for delivery after February first. We are making a specialty of Eight Weeks Old Stock—stock practically raised and out of danger. We are contracting rapidly on this and if you want to do yourself good you will let us have your application early. Safe delivery guaranteed. Write for catalogue.
ALABAMA LEGHORN FARMS COMPANY, MULGA, ALABAMA.

CARTER'S BROWN LEGHORNS

Have won over 500 premiums at 30 big shows under 25 National Judges. Compare this record with all breeders before placing your order for Cocks, Hens, Cockerels, Pullets or breeding pens. Free circular tells it all to you.

E. E. CARTER
Dept. I. H., Knoxville, Tenn.

crease flock to 600 or 800 if results warrant.—W. O. P., Ga.

Ans.—The writer has worked on Eastern plants where all layers were allowed to range together and housed in movable houses as you describe, and the results were fine; but in your case, without experience, I would rather use the yard system. 50 hens to each flock, kept in houses, say 7x20 feet, or build a continuous house long enough to accommodate the size flock you wish to keep, allowing 20 feet for each separate flock, will do.

Q.—Can you place me in communication with some reliable dealer who sells day-old Brown Leghorn chicks?

Ans.—Find answer to Mr. J. R. M.

Q.—I have the Brown Leghorns and have had them for years, but they have become badly mixed with other breeds. I want nothing but the pure breeds. Can you tell me from whom I can get them?—J. R. M., Miss.

Ans.—Look over the ads in the columns of the Hen. Several reliable breeders of this breed advertise therein.

Q.—Will Southern bred poultry do well as far North as Michigan? I have

a brother in Georgia who has White Rocks and will give me several.—Robert O., Flushing, Mich.

Ans.—I see no reason why the Southern fowl shouldn't do well in your territory. It might be best to get eggs of your brother and hatch and rear your chicks.

Q.—Please give through your journal a remedy for scaly legs. All of my stock have it.—A. E. M., Tenn.

Ans.—Dip legs of poultry in kerosene oil up to feathers, but do not allow oil to get on skin above hock joints for it will blister badly. Repeat the treatment until legs are thoroughly soaked, after which apply carbolated vaseline until scales drop off.

Q.—I write to ask if you can give me information about treating chickens with bad colds? I have quite a lot of it in my flock and have lost several of them.—H. S. G., Corinth, Miss.

Ans.—First remove the cause. There is something wrong with your housing, or else your stock is exposed to the cool air of the early morning too much. Colds are the result of draughts and exposure. If poultry is healthy and kept comfortable there is no danger of colds. Give to each bird one grain of quinine twice a day. Mix a moist mash, and put one teaspoonful of Cayenne pepper with it for each twelve birds.

Q.—I read one of your articles in the Hen and tried the tonic acid as you recommended. My hens have stopped laying. Would the acid do anything towards stopping their laying?—A. A., Ohio.

Ans.—The acid you used had nothing at all to do with the hens not laying as well as usual. Continue your regular routine of feeding and care and the hens will get down to business again. No flocks lay continuously.

THEY GET RESULTS

Industrious Hen Co.,
Knoxville, Tenn.

As 1912 is drawing to a close, we write to tell you we have no fault to find with the past season. Our Ancona business increased over 300 per cent. We give "The Hen" praise as an advertising medium, and we will be with you again in 1913. With health restored, we are mating the best Anconas we have ever owned.

We advertise with you because we get results.

Yours truly,
DISMUKES & ARRINGTON,
Castalian Springs, Tenn.

Scaly legs may be cured by two or three applications of kerosene.

"BLUE-BAR" Barred Rocks

WIN IN HOT COMPETITION at the North Carolina State Fair—First cock, first and second cockerels, first pullet, first pen, A. P. A. Diploma; shape and color specials and best display. At the Maryland State Fair—First cock, second cockerel, first and third pullets, first pen and best display. At the Charlottesville, Va., show—First and second cocks, first cockerel, second hen and second pen. Special for champion Barred Rock male. Special for third best cockerel in the show and best display.

EXHIBITION BIRDS TRAINED AND CONDITIONED FOR THE SHOWS

Pens and trios mated for exhibition or breeding. My birds are fine in type and color and barred to the skin in all sections. Let me quote you prices. A sale is not completed until you have examined the birds. Catalogue on request.

L. H. READE -:- HIGHLAND, PARK, RICHMOND, VIRGINIA

Originator of the "Blue-Bar" strain of Barred Plymouth Rocks.

THE BROODER STOVE.

If the brooder stove will do for other poultrymen what it has done for me during the hatching season just past, it means that the poultry industry of the United States will soon add a few more millions to the grand total of poultry products.

I am convinced I can raise at least 90 per cent of the chicks I hatch from my own eggs and I am not going to be satisfied until I make it 95 per cent. If every poultryman could do as well, think what it would do for the poultry industry of this country.

I suppose it is safe to say the average number of chicks raised with artificial brooders and hovers is about 60 per cent. Just think what it would mean to the poultrymen if that 40 per cent mortality could be cut in two and instead of raising 60 per cent, making it 80 per cent.

There are two things yet for the poultrymen to learn aside from proper incubation before the percentage can be raised. The one is proper feeding and care of the breeding stock. Eggs must not only be fertile but they must produce strong, healthy, vigorous chicks. This is easily accomplished when one once learns what is required to produce the proper results; there are many of the big poultrymen throughout the country who have made such a study of this requirement, that there is not much room for improvement.

The big bug-a-boo in the poultry business has been to successfully raise the chicks after they have been hatched.

I know from my own experience and from carefully watching the results obtained by other poultrymen that the eastern breeder has a lot to learn. I have brooded chicks with all the different "paraphernalia" on the market from the small individual lamp brooder and hover to the expensive and elaborate hot air and hot water system, and I know a large share of my profits has disappeared each year through the mortality list of my brooders.

This being true, it is up to the poultryman who wants to make a success of the business to reduce his mortality and I believe the Brooder Stove is the solution.

I have raised between five and six thousand chicks this year with four Brooder Stoves and while this has been an exceptionally bad year for the rearing of chicks, I have had the best success of all the twelve years I have been in the business.

Will Win
Anywhere



5000 Birds
Like this
at Low
Prices

FERRIS IMPROVED White Leghorns are Winter Egg Machines

Ferris Leghorns are the best layers in the world. Size, health, vigor and profit are bred in the bone. Scientifically bred for eggs for 10 years and will lay 175 eggs or more a year with ordinary care. Thousands of satisfied customers all over the world. We can prove that they will pay you best.

SATISFACTION OR YOUR MONEY BACK

Our guarantee is the most liberal ever given by any breeder. You must be perfectly satisfied before sale is considered closed.

Eggs and Day Old Chicks

We are prepared to ship eggs and chicks in any quantity. Thousands of hens in our bred-to-lay matings. 25 exhibition matings. Infertile eggs replaced free; safe arrival of chicks guaranteed. Our New 60-Page Catalog just received from the printers. Gives prices and describes stock, farm, methods. Finest White Leghorn catalog ever published. Absolutely free. Send postal today for your copy. **GEO. B. FERRIS, THE FERRIS LEGHORN FARM, Grand Rapids, Mich.**



Get this
60-
Page
FREE
Catalog

S. C. BROWN LEGHORNS

Nothing except birds of quality that stand the tests of competition are bred from Phenomenal layers at all seasons. Old and young stock for sale. Exhibition birds and excellent breeders at moderate prices. Cockerels at all prices for sale. I always guarantee stock as represented and satisfaction. Send for mating list.

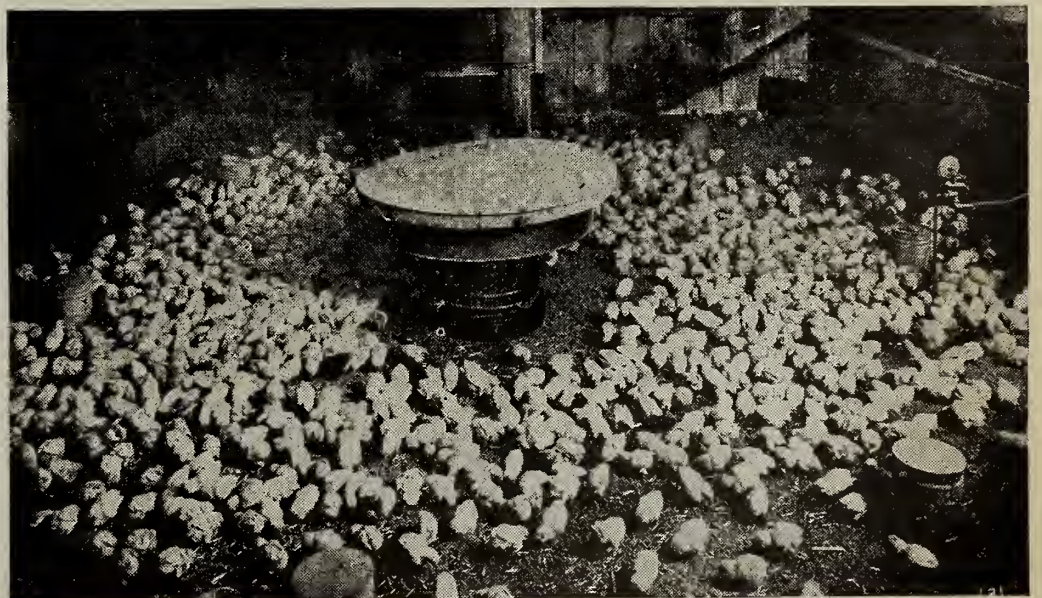
H. C. ADAMS

Lynchburg, Virginia

BLYTHE BROTHERS BARRED ROCKS

Box B, FRANKFORT, KY.

Now is your chance to secure extra good breeders at a very low price, as we must have the room for our growing youngsters. Exhibition birds of quality—just what you want for your fall shows. Book orders at once, and mention the Hen.



A Brooder Stove in operation on the farm of N. P. Husted, Grandville, Mich.

I was in California a few years ago for my health and saw the results obtained at Petaluma at that time with the crude and poorly constructed Brooder Stove. This spring I investigated the improvements that had been

made and was convinced the stove is no longer an experiment. I first purchased one stove, but no sooner was it in operation than I installed three more.

This system is the only way to

SINGLE COMB RHODE ISLAND REDS

S. C. REDS, pullets and cockerels, that have proven their quality. Want them? Newport, 1st pen, cock, cockerel, hen, pullet; Morristown, 3 entries, 1st pen, cockerel, pullet; Sweetwater, 3 entries, 1st pen, 1st pullet 3d cockerel. Price, pens \$75.00; pullet, \$15.00; cockerel, \$25.00; beautiful cockerels and pullets \$3.00 and up; all line bred birds; on approval. APPALACHIAN POULTRY YARDS. A. J. Stanbery, Prop., R. F. D. No. 2, Newport, Tenn.

Hoag Farms, Enid, Oklahoma, Breeders of

S. C. White Leghorns--Buff Orpingtons Single Comb Rhode Island Reds

Our birds have become popular upon their own merits. They are noted for their marvelous laying qualities and hardiness. If you need a bird for your show or breeding pen write us, our catalogue is free. (Mention this journal.) Eggs and baby chicks in season.

HOAG FARMS -- ENID, OKLAHOMA

S. C. WHITE LEGHORNS

FARM-BRED STRAIN



Bred with inborn tendency to lay—long, deep bodies, low tails, pure white, healthy, vigorous. Bred and fed on scientific principles; reared under natural, congenial environments. Yearling Hens, Yearling Cocks, Cockerels and Pullets for sale.

CHICK-A-DEE FARM, J. A. Dinwiddie, Prop., New Market, Tenn.

NATIONAL WHITE RUNNER DUCK CLUB CATALOGUE

At last a book devoted entirely to WHITE RUNNERS is to be published. If you are interested in White Runner Ducks, then you should have one of these books. This catalogue is to be issued by the NATIONAL WHITE RUNNER DUCK CLUB. It will contain the usual statistics of the Club and in addition articles by the foremost breeders of White Runners in the country; taking in every phase of the White Runners in breeding, care and marketing. This book will be of great value to breeders of White Runners. Price of catalogue is fifty cents. Become a member of the NATIONAL WHITE RUNNER DUCK CLUB and you get a catalogue free. Membership fee \$1.00. Address O. O. RAY, Secretary-Treasurer, Kirkwood, Georgia.

brood chicks, and while I put from 800 to 1,200 around my stoves I am satisfied the stove is practical for the small breeder as well as for the large one.

They are so inexpensive to install and operate and they reduce the labor so materially, that anyone in the chicken business cannot help but figure a saving over the old way, to say nothing about the results obtained.

On account of my health I closed my ranch last year and there was not a chicken on my place January 1, 1912. I had to buy all my eggs for hatching but with these foreign eggs—and some of them very poor—I have surprised myself and all my neighbors with the results obtained. I now have over 3,000 pullets and about that many cockerels; the White Leghorn pullets hatched May 10 will be laying in a few weeks. So you see I have jumped from a deserted chicken ranch to a good sized plant in a few months. Next year I will have my own stock and I am figuring on some record breaking results because I know I can feed for fertility a lot better than some of the fellows did that furnished me eggs last spring. My mortality has been less than 15 per cent. I now have a bunch of July hatched chickens around one stove that are doing fine. They were strong, healthy chicks to start with. They are now five weeks old and so far I have taken out just 48 dead ones, and a part of these I killed because they did not look good. I am giving these chicks my personal attention, as I want to see just what can be done. It will help me figure on results for next year.

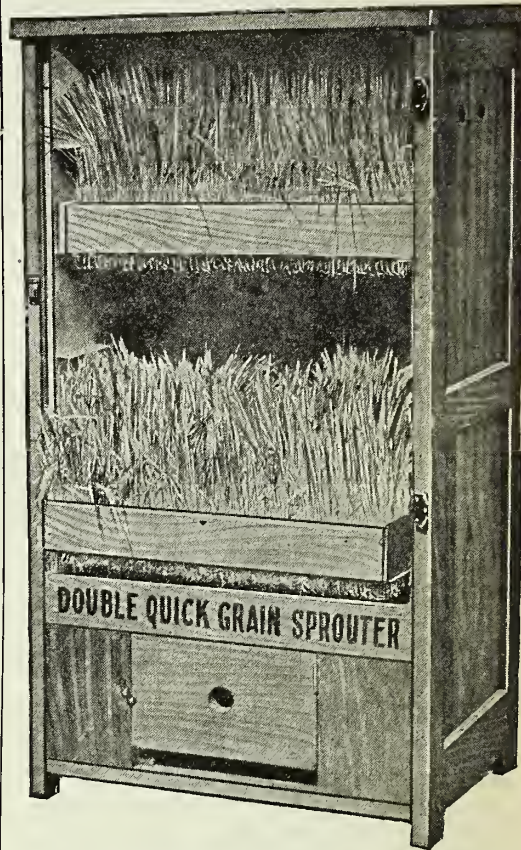
In conclusion let me add I have restocked my place with an original capital of less than \$500. I have sold

over 7,000 chicks and 1,000 broilers; this has helped to finance the deal. I have done all the work myself. I could not possibly have handled all the chicks with any other brooder system that I know of.—N. P. Husted, Grandville, Mich.

WHY SPROUTED OATS ARE A CHEAP FEED.

The accompanying photograph offers a splendid illustration of the advantages in feeding sprouted oats. The oat sprouts shown in the picture are from nine to twelve inches high, the average being about ten inches. The question is often asked if there is any gain in feeding sprouted oats except the gain that comes from using a green feed. The illustration confirms the fact that there is also a gain in the amount of feed. When an oat sprout is from one to one and a half inches high, it has exhausted all the nourishment in the original kernel. But the sprout grows on till ten to twelve inches in length. On what does it grow? Since in the grain sprouter nothing is given it but warmth and water, it of course gets its food from the water and the air. All young plants like young animals get their first food from easily accessible sources. There is a limit of course to the extent a plant will grow on water and air. When it has completed its youthful career and prepares to take on the duties of maternity or to reproduce itself, it needs the woody stalk to support the head and also the various elements for producing the mature grain, and hence must have the earth salts. This is where rich soils come in to produce heavy crops

of grain. After the sprout or young plant has grown eight to twelve inches high if it be not given the earth salts it falls and decays. But there is an immense quantity of feed between the one inch which grows from the original kernel and the ten or twelve inches which one can grow easily in the Double Quick Grain Sprouter. Perhaps it is not generally known that a field of grain may be planted in pure sand or ground glass and if kept well watered will make a luxuriant growth eight to ten inches high, but no mature grain will ever be reproduced in such a field.



No. 3. Double Quick Grain Sprouter with the door and all trays removed but two, showing oat sprouts nine to twelve inches high. Manufactured by the Close-To-Nature Company, Colfax, Iowa.

YES, WE RAISE 'EM.

The following Associated Press dispatch sent out from Washington, Nov. 26, shows that East Tennessee is one of the greatest sections in the United States for raising turkeys:

With a majority of its 65,800 passengers gobbling their despair protests, a special train of forty-two cars raced through Washington early today bound for New York with turkeys from East Tennessee destined to grace many a Gotham table. There were thirty-four cars filled with live turkeys, each car in charge of a special man who looked after the comfort of the fowls, and eight refrigerator cars containing birds killed and prepared for market. The "turkey special" is said to be the biggest single shipment of turkeys in many years.

Vegetables are great stuff for the hens, especially when they can't get green feed in the fields.

TURKEY CROP A GREAT REVENUE IN THE SOUTH.

I SEE in a recent issue of the Hen, a Northern writer says the turkey crop is short in that section on account of a great deal of wet weather the last of April and the month of May. There was a great deal of rain in the South at that time also, but it did not destroy our young turkeys, and the yield seems very fine, much better than the two years previous. I have heard from a number of sections throughout the South and the crop seems to be generally good. I have heard of a few individuals who have failed but these failures seem to be from some local cause, and not the weather. Ours was an unusually cool summer, only a few days at the time have been extremely warm, and with the abundance of natural food gathered by the young fowls foraging all day, they have done well.

To follow nature's ways with turkeys and let them gather the greater part of their food all their lives, they are more hardy and rarely originate diseases among themselves, but oftener contract disease by either feeding with other fowls or running on limited range too long. Turkeys can not bear confinement, or close quarters to roost in. They must have plenty of fresh air in coop. As long as they are not able to fly up on poles or need the warmth and protection of the mother, they should have large, roomy, airy coops, and when old enough to roost out, poles or trees

Galvanized Steel



Lice-Proof Nests

HAPPY HENS EARN BIG PROFITS

Keep your hens happy and laying by keeping them free from profit killing lice and mites. Equip your laying houses with

KNUDSON Galvanized Steel LICE PROOF NESTS

These wonderful, sanitary, patented nests can't get out of order, last a life time and earn their cost many times over. Regular price, \$3.90, set 6 nests—special introductory price, \$3.50; 3 sets, 18 nests, \$10. Write for our free catalog, Galvanized Steel Brood Coops with Runs, Chicken Feeders, etc. KNUDSON MANUFACTURING CO., Box 487, ST. JOSEPH, MO.

should be provided, in open air, for here in the South we never have weather too cold for them to roost in open air, and it is a fact the colder the weather the higher they will go in the tree tops. I have had them covered over with ice and sleet, and it is then, I try to protect them under some kind of shelter, because their plumage is so stiff and wet they can not get that natural tuck of the head under the wing to shield their heads from cold, the most essential part to keep warm because of roup and cold.

I have never seen a case of "black-head" and hope I may never see any of it from what I have read of it. Our most prevalent diseases among turkeys are chalk diarrhoea and gapes while young, and roup in the fall or winter, but after they are three months old and have moulted and passed through "shooting the red" we feel they are safe on to Thanksgiving and Christmas market, and the turkey revenue in the South this season will be many thousands of dollars to the farmers, for a 4x4 chicken crank can not raise turkeys on his 4x4 lot, neither can a farmer raise his hundreds all in one flock, year after year on the same acreage. I like about fifty

or seventy-five in one flock and if we want more raised, have them raised on another farm. I have four flocks, raised for me this year all on different farms. I select the breeding stock just as carefully for one flock as another and see that new blood is introduced, and that there is no common or mixed stock near, that they might get mixed with my own proud Mammoth Bronze beauties. I wonder so often why our city friends do not furnish renting country people their stock and let them raise on the shares, one-half for the other. It seems to me it would be a good investment, and then they would be sure of their own festival turkeys in good condition. I have had them raised that way for me for a number of years, for I have not raised enough at home to supply my demands for years, at the same time I do not want my own house to get turkey tired so I can not raise fifty or seventy-five every year. I am sorry our Northern friends have not had good success, but I am certainly glad that our breeders from the Sunny South can supply them with anything they want, from a show bird to a fine fat roaster for Christmas.—Mrs. J. C. Shofner, Mulberry, Tenn.

Will You Send For My New Free Book No. 25, on X-Ray Incubators and Brooders?

LET me tell you why the X-Ray is the best machine for you! My X-Ray Incubator is the only improved one on the market. It is shipped direct from my factory to you. No agents—no dealers. Guaranteed to please—your order filled the same day received. And I prepay the freight. Free book tells all. I put a big lamp underneath—square in the center—and not on the side! This makes an absolutely even temperature in egg-chamber all the time. No cold side or corners. Fill this tank just once, then forget about it till next hatch. Other machines have to be filled every day! The famous

X-Ray Incubator

"Built Different From All Other Machines"

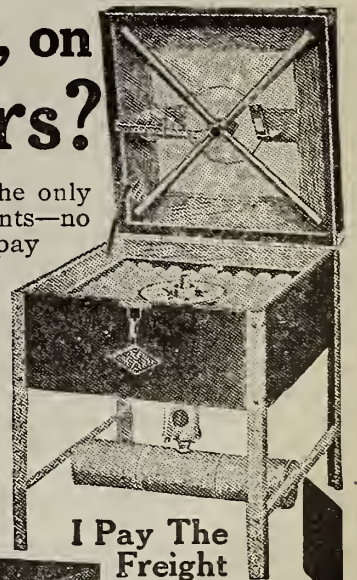
Uses Just 1 Gal. Oil to Hatch—Requires Only 1 Filling of Lamp!

Just one gallon, that's all! The old-fashioned lamp-on-the-side machines use 3 to 5 gallons and have to be filled every single day. My automatic trip—an exclusive X-Ray feature—cuts down the flame at the burner. This eliminates all excess heat, smoke and smell. And there's absolutely no waste. My X-Ray regulator requires no attention whatever—it is purely automatic and takes all responsibility from your shoulders.

I Guarantee to Save You From 75c to \$1.25 on Every Hatch

In three year's hatching I can save you more than what you paid me for my ever-successful X-Ray machine. The advantages of this machine are wonderful. X-Ray has two double-glass panels on lid so thermometer can be plainly seen at any time—without chilling or disturbing eggs. To use my X-Ray means less handling of eggs, less oil expense, less heat generated, no waste, no fumes, no dirty, mussy lamp to be filled every day. Women, especially, prefer the X-Ray—it is nice and clean, so sanitary. Yours truly,

J. H. KATE, President,
X-RAY INCUBATOR CO.
Wayne, Nebraska



I Pay The Freight

Get My Free Book

The X-Ray Brooder is Guaranteed to Raise Every Chick Worth Raising

Built with same perfect heating system as my famous X-Ray Incubator. Affords the best kind of a home for little chicks. Gives them plenty of light, air and ventilation. Four windows, all slide to ventilate. A better home than the old hen herself. Write me today for Factory-direct price on X-Ray Incubator or Brooder. Address me personally, J. H. Kate, Pres.

Date.....
J. H. Kate, President, Wayne, Nebr.,
X-Ray Incubator Co.,
Dear Sirs: Send me by return mail your new Free Catalog 25 on X-Ray Incubators and Brooders.
Name..... Town..... State..... R. F. D.....
log

DENSMORE'S Single Comb WHITE LEGHORNS

WIN, LAY AND PAY

To make room for growing stock, we will offer a few choice breeding pens at half price. Also 500 one and two year old hens at \$1.00 and \$1.50 each.

THE DENSMORE POULTRY FARM, Inc. -- Roanoke, Virginia



Mammoth Bronze TURKEYS for Sale

Old and young stock from two magnificent flocks, mated for largest size and best plumage. When buying be sure you buy the best. My breeding toms for six years have weighed from 43 to 50 lbs. at 18 and 20 months of age. Won many prizes in the leading shows, scoring from 96 to 97½ points. I can furnish you young stock that will grow that way for you. Do not delay buying your breeding stock early. Also Barred Plymouth Rock Chickens from the best prize-winning blood. Eggs in season. Member A. P. A. MRS. J. C. SHOFNER, Booneville Poultry Yards, Route 1, Mulberry, Tenn.

Buff Plymouth Rocks

WINNING 1st COCKEREL, 3rd and 5th HENS.

Special for best BUFF PLYMOUTH ROCK male at Hagerstown, Md., Oct., 1912. SHOW COCKS, HENS, COCKERELS, AND PULLETS for sale. Also great breeding birds at reasonable prices.

Write us

JEFFREY & HERVEY, Raleigh, N. C.

Specialty Clubs & Associations

Executive Committee Meeting of the National White Runner Duck Club

There will be a special meeting of the Executive Committee of the National White Runner Duck Club, held at the Auditorium Armory, Atlanta, Ga., Dec. 19, 1912, at 3 o'clock, p. m. The object of the meeting is to make final preparation for issuing the first annual catalogue of the club; to set date for members to vote on time and place of the next annual meeting, and to give the members an opportunity to present their views on the present White Runner Standard before the matter is presented to the A. P. A. for its consideration. All members and interested breeders are especially invited to attend this meeting, as issues of vital interest to White Runner breeders will be discussed.

AMERICAN BARRED PLYMOUTH ROCK CLUB.

The annual meeting of the American Barred Plymouth Rock Club will be held at the show of the Southeastern Poultry Association, at Charlotte, N. C., Saturday, January 11th, 1913. Two hundred dollars will be offered in "Specials" and everything gives promise of a large and enthusiastic meeting. The club is in a flourishing condition and many new members are being added to our list every day. The popularity of the Barred Plymouth Rock was never greater than it is today. This old and reliable breed has been a leader in the race for more than fifty years. The Barred Rocks are America's most popular fowl. More Barred Rocks were exhibited at the shows of the United States during the past year than any other breed. The American Barred Plymouth Rock Club is the leading Specialty Club of America. It will be to your best interests to become a member of this club. Membership fee is \$1.00. Send your name and fee to Henry D. Riley, Secretary, Strafford, Chester Co., Pa.

Attention Penciled Runner Breeders.

Times have changed! The show secretaries are beginning to believe in us, as is evidenced by the fact that all five of the big Eastern shows, Madison Square Garden and Palace at

New York, Philadelphia, Boston and the big Southern International (which promises a Runner exhibit of 500 birds in the three varieties), have opened their doors wide to us. Focusing on three prominent shows, the Cumberland White Egg Indian Runner Club therefore offers for the competition of its members at Madison Square Garden \$10 in gold, and at Boston a \$10 cup for the best display. At Philadelphia it offers a silver cup. The President's cup, valued at \$15.00, goes to the best breeding pen at the Garden show.

The Vice-President will offer specials on best dozen eggs if there are egg classes. The regular prizes are open to all breeders of Penciled Runners, and some of the Associations will offer specials. The President of the Cumberland Club has offered a modest "Good Will Special" at Boston, open to those outside the club. Pittsburgh, Pa., is making a fine opening for us at its Exposition Show, with large prizes. Houston and the big Beaumont show in Texas are giving us equal chance with others.

We hope breeders of English Penciled Runners will send for the catalogues of these shows and that they will enter all the birds they can afford to show. We shall be pleased to have you join the club and so be eligible to compete for our specials; but whether you are a member or not, help the cause of the Penciled Runners by sending a good exhibit to one or all of these shows.

(Signed) C. K. VANDERBILT,
Secretary, Lyons, N. Y.

NATIONAL WHITE WYANDOTTE CLUB ANNUAL MEETING.

The National White Wyandotte Club will hold its annual meeting in connection with the Albany, N. Y., show January 13th-17th, 1913. \$400 in Cash Specials will be given on this one variety alone, besides the usual medals and regular prizes. This cash is distributed as follows: 1, \$10; 2, \$10; 3, \$10; 4, \$10; 5, \$5; 6, \$5; on cocks, hens, pullets, cockerels, old and young pens. Best shaped female, old and young, \$12.50 each; 1st collection, \$30; 2nd collection, \$20. These prizes are open to club members only; all White Wyandotte fanciers should send for the club's Year-Book, or better, send \$1 for membership to L. J. Demberger, Secretary-Treasurer, Stewartsville, Ind. Those desiring premium lists should send to Chas. B. McEwan, Secretary, Albany, N. Y.

BUFF LEGHORN BREEDERS NOTICE.

To the Members of the Buff Leghorn Club: Notice is hereby given, that the annual meeting of the American Buff Leghorn Club for the election of officers, passing of accounts and such other business as may properly come before the meeting, will be held at Madison Square Garden, New York City, on the 3d day of January, A. D. 1913, at 3 o'clock p. m. of that day.

The Buff Leghorn Club has issued a 90 page book, the value of which is priceless and

worth more to any person interested than any \$2 poultry book yet on the market. It tells all about these great winter layers.

MINORCA BREEDERS—ATTENTION.

The next annual meeting of the International Rose Comb Black Minorca Club will be in connection with the great Boston Show, Jan. 7th to 11th, 1913. Already a large amount of cash specials have been offered and it will be a show which no breeder of Rose Comb Black Minorcas can afford to miss, either with their entries or their presence. An expert poultryman will be in attendance at the show to see that all Rose Comb Black Minorcas are properly cared for and handled, also brushed up and looking their best before the judge gets around. Whether you are able to be there in person or not your birds will receive proper care and a winning of even a small prize at this show will be worth many times the expense involved. Don't forget to send to W. B. Atherton, 30 Broad St., Boston, Mass., for a copy of the premium list as soon as it is out. If you can not send more, an exhibit of even one or two birds will help make this the greatest Rose Comb Black Minorca show ever brought out. We will see that you get a square deal. Lloyd C. Mishler, Sec., North Manchester, Ind.

For Show Secretaries.

Kindly remember that the International Rose Comb Black Minorca Club will give one fine silk badge each for best cock, best hen, best cockerel, best pullet and best pen at your show. As these awards are made only to members of the club, we advise all who wish to compete for these prizes to send \$2.00 to Lloyd C. Mishler, Sec., North Manchester, Ind., which pays for initiation and dues to July 1st, 1913. Those winning the largest number of ribbons in each State will be given State Championship. We want notice to this effect printed in your premium list. Lloyd C. Mishler, Sec., North Manchester, Ind.

NOTICE.

The 1912-13 Year-Book of the White Plymouth Rock Club is in the mails. This book comes closer to doing the club and the splendid breed to which it acts as sponsor full credit than any other publication ever issued by the club.

Handsomely bound, printed upon excellent coated paper, with half tones, that stand out boldly from the page, having some dozen contributors, and most eminent authorities on the care and breeding of the Plymouth Rocks. It is a work of reference that should be on the desk or reading table in every home where there lives a poultry keeper, who loves this variety.

From the beginner to the advanced student there is something to interest and instruct all. The work of the club, dates of the 1912-13 meetings, complete list of all members, various other items of interest on the breed and the club, are contained in this volume. It is an encyclopedia on the White Plymouth Rocks.

This book is not sold but is given to every one interested in the White Plymouth Rock Club, providing that they become members of the club, the dues of which are one dollar a year.

Further information about this book or the handsome ribbons and cups given by the club for both fancy and utility, will be cheerfully furnished by the Secretary, C. W. Whitney, Southboro, Mass.

A NEW BOOK, CHICKEN CHAT, FREE.

Every person interested in poultry should read CHICKEN CHAT. It gives the cause and symptoms of all poultry diseases, and suggests methods for curing them, with ideas to prevent contagious and infectious diseases in the poultry yard.

The most prominent poultry authorities in the world have contributed their stories to this book, and we have arranged that every one of our subscribers can have a copy free of charge for the asking.

An interesting report is made by the Ontario Government Poultry Expert, Professor Graham, in regard to his successful handling of incubators, and the prevention of White Diarrhea in his hatches. By his method he has secured healthy, strong chicks with great vitality—chicks that live and grow.

CHICKEN CHAT is really the poultry raisers' "Insurance policy."

We advise our readers to write at once, before the supply is exhausted—address The Zenner Disinfectant Company, (makers of Zenoleum Products), 201 Lafayette Avenue, Detroit, Michigan.

SWORN PROOF OF A TRULY REMARKABLE RECORD.

In these days of progressive activities in the poultry industry, it is a pleasure for this journal to call the attention of its readers to the advertisement of the Reliable Poultry Specialty Co., whose announcement for the 1913 season, appears for the first time this month. They are manufacturers of poultry specialties and their "leader" is the AJAX IMPROVED OXYGEN VITALIZER. The company claims that the Oxygen Vitalizer will produce a strong, vigorous chick from every good egg placed in the incubator, and that chicks hatched under Oxygen treatment are immune from the attacks of dreaded White Diarrhoea.

In order that their advertisement may convince the most skeptical of the wonderful worth of the Vitalizer, they have furnished our readers with sworn proof of the results secured by Mrs. F. J. Russell, at Summerdale, N. Y., during the season of 1912. Mrs. Russell's report to the Company of her season's work, is made under oath before Mr. R. C. Cipperly, a notary public.

In writing us about this remarkable record the President of the Reliable Poultry Specialty Co., speaks of the value of sworn proof, as distinguished from a mere claim. He tells us of an incident that happened in a New York State court room in the trial of the famous Kellogg case. Justice Hodgson was one of the greatest jurists that ever graced the bench of that court. The attorney for the defendant was examining a juror as to his fitness to serve as such, and asked this question: "Sir, if you are permitted to act as a juror in this case, will you render a verdict according to the sworn testimony?" To this question the proposed juror replied, "well, I don't know. I have well settled ideas of my own." At this, the Judge said, "Sir, you are excused. A man who will disregard sworn proof, has no right to act as a juror."

Surely the record of Mrs. Russell is a most remarkable one, and particularly when we take into consideration the frightfully bad hatching season of 1912. If the AJAX IMPROVED OXYGEN VITALIZER will do for others what it has done for Mrs. Russell, it is one of the most wonderful gifts that Science has sent to the Poultry world. The losses each year from "dead in the shell chicks" and White Diarrhoea probably mean a million dollars, or more to the poultrymen of this country. This sum turned to the profit side of the poultry account, would mean a very tidy sum each year to each individual poultryman.

The confidence of the Reliable Poultry Specialty Co., in their AJAX IMPROVED OXYGEN VITALIZER finds expression in their "money back" guarantee under which the Vitalizer is sold, and they give their bank as a reference as to their responsibility. In a letter which accompanied their advertisement the Reliable Poultry Specialty Co., make it very plain, that where the instructions given by them for the operation of the Vitalizer are followed, they guarantee it to do all they claim or they refund the purchasers' money. There is no chance for loss to any of our readers who purchase a Vitalizer, and it is a pleasure for us to call attention to the AJAX IMPROVED OXYGEN VITALIZER and to the straight-forward proposition made by the Company.

The Vitalizer is so simple that any one can operate it. It can be attached to any incubator in two minutes, and will last a life time. It costs \$3.50 delivered, charges paid anywhere in the United States; and is all complete, ready for use when received. Packed with every Vitalizer is a printed and officially signed "money back" guarantee as plain as English language can make it. If this Oxygen treatment is all it seems to be from the sworn proof of one who has used it, it certainly promises better things for those engaged in the poultry business for profit.

American Fanciers' Association Poultry Show, Cincinnati, Ohio, January 23-30, 1913.

The American Fanciers Association, Cincinnati, Ohio, has been organized and incorporated, for the purpose of putting on each year one of the three great shows of America, and of course we do not want to be second to none. Cincinnati is geographically located to have one of the greatest shows in the world. It is the natural gateway to the vast South, it is centrally located to the North, East, South and West, and has one of the best lighted show buildings to be found anywhere.

There is no limit to the number of birds that can be cooped in the great Music Hall where the show will be held. If this show should out grow the north half of the building, which will hold 5,000 birds, we can take

Crystal White Rocks

One of the best show and utility strains in the country. Quality, not quantity, is what counts. Can please you with show or breeding birds. None better. Twenty years a breeder. Try

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Pure
Aristocrats

The richest colored strain of Reds in the world. Aristocrats swept Chicago. Eggs until Jan. 1st, \$1.50 and \$2.50 per 15; \$10.00 per 100. Some fine cocks and cockerels for sale cheap; shipped on approval.

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Stamp, Ready for Use, Including Inked Pad, Price, Postpaid, \$1.00.

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617 Gay St., Knoxville, Tenn.

over the south half. We know there is no greater location to hold a show, as it is situated where there are over one million people within street car distance of Music Hall. Cincinnati is separated from Covington, Newport and Latonia, Ky., by the River only.

Officers: E. B. Rogers, Cincinnati, Ohio, President; Frederick Besuden, East Norwood, Ohio, First Vice-President; W. C. Pierce, Indianapolis, Ind., Secretary-Treasurer. Other officers and stockholders are: W. Besuden, East Norwalk, Ohio; Lewis R. Smith, Cincinnati, Ohio; F. E. Harrison, Menominee, Michigan; Charles Pape, Ft. Wayne, Ind.; C. A. Besuden, Cincinnati, Ohio; Bruce & Ahlott, Whiteland, Ind.; Theo. Hewes, Indianapolis, Ind.; Mr. White, Newport, Ky.; Mr. Reineke, Cincinnati, Ohio; Sheffield Farm, Glenwood, Ohio, and others.

This show will offer some of the handsomest silver cups offered at any show ever held in America, besides some great cash prizes. This Association is organized by many of America's leading breeders and business men, and will be conducted in a business-like way.

We have secured the national meeting of the Red Breeders' Club of the World, and there will be more money prizes and Silver Cups offered on Rose and Single Comb Rhode Island Reds than ever offered at any other show where Rhode Island Reds were ever shown. The cash prizes will run to eight on cock, hen, cockerel, pullet and pens. Get your birds ready for this great exhibition; send a few; be sure you are represented. We are open to make offers on any other club meetings.

The judges so far engaged are A. F. Kummer, Butler, Penn.; D. L. McCord, Danville, Ill.; H. A. Pickett, Greentown, Ind.; D. E. Hale, Quincy, Ill.; W. S. Denny, Buffalo, N. Y., and Theo. Hewes, Indianapolis, Ind. Address all correspondence to W. C. Pierce, secretary, 665 East 21st Street, Indianapolis Ind.

SILVER WYANDOTTES.

Why So Few in the South?

So much is being said and written about some of the new breeds, and so little about the old ones, a beginner is very apt to think the newer ones are taking the place of the older ones. This is not true, however, for I don't believe there will ever be a new breed as good as some of the old ones.

Take the Silver Wyandottes for instance. I honestly believe that they are the greatest fowl for all purposes ever bred, and yet we find comparatively few breeders of this grand old breed in the South. You seldom see an article or a cut of this variety in any of the Southern poultry papers. Why? It is not because the Silvers are not as good as they used to be,

for they are better today than ever. It is because we breeders don't advertise and keep them before the public like we should. It is just like any other business. You can take any article on the market to-day and let them stop advertising it, and it will soon be a back number, no matter how good it is. Some other article, not half so good, will take its place if properly advertised. It is the same way with the different varieties of poultry. Look at the leading varieties to-day. Why are they the leading varieties? It is because they are kept constantly before the people. You can't pick up a poultry paper without seeing something about these varieties. It is not because they are so much better than others.

This is why the Silvers have not "come into their own" in the South. We breeders have "laid low" and not let the public know what a good thing we have. Let's all get together and "show our hand." We have the best breed, and the best climate in the world in which to breed them, so why not go to the front where we belong?

The Silver Wyandotte Club of America has issued a beautiful catalogue for 1912, which I will gladly mail to anyone interested in the Silvers. It is worth dollars to a beginner (or anyone else) and doesn't cost you a cent. Send your name and address, or if you have one, send the name of some of your friends who are interested.—W. M. Harris, Johnson City, Tenn., State Representative Silver Wyandotte Club of America.

Poultry Show Ranks High.

F. A. Goodlin, of Knoxville, Tenn., representing the Industrious Hen, a poultry publication of that city, is a live wire for his publication at the fair. Mr. Goodlin has been a visitor at the Georgia State Fair for a number of years and states that the poultry display this year is the best he has seen in Macon, and the class of the birds is as fine as that of any of the southern states he has visited this fall.—Macon (Ga.) Daily Telegraph.

The . . . Orpingtons

Black, Buff and White



Specimen Illustration (much reduced)

A COMPLETE AND AUTHORITY TEXT BOOK and Instructive Treatise devoted to the Orpington Fowl, the most popular breed in England and one of the leading favorites of Standard-bred Poultry in America. This book (80 large pages and cover) tells how to select breeders and how to mate for best results. Care, feeding and management fully discussed.

Edited by

J. H. DREVENSTEDT,

Breeder and Judge of twenty-five years' experience and member of Standard Revision Committee 1898, 1905 and 1910

Fully Illustrated by

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CONTENTS

Chapter I—Orpington Origin
Chapter II—Orpington Type
Chapter III—Black Orpingtons
Chapter IV—Buff Orpingtons
Chapter V—White Orpingtons
Chapter VI—Non-Standard Varieties.
Chapter VII—Orpingtons as Exhibition Fowl
Chapter VIII—What Breeders Say
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Tells what changes were made, why they were made and how they will affect the mating and breeding problems that now confront the breeders of Orpingtons. Progressive breeders and exhibitors who wish to keep abreast of the times cannot afford to be without this book. Text supplemented by over sixty illustrations, by Sewell, Schilling and Burgess, a study in pictures that will prove valuable to breeders, bringing clearly before the eyes of all Orpington admirers, in the minutest detail, every point of value in the fowl. The text and illustrations not only bring the book down to date, but anticipate the advancement of the breed for years to come.

The book consists of 80 large pages, 8½x11½, is printed on first-class paper and bound in a handsome cover.

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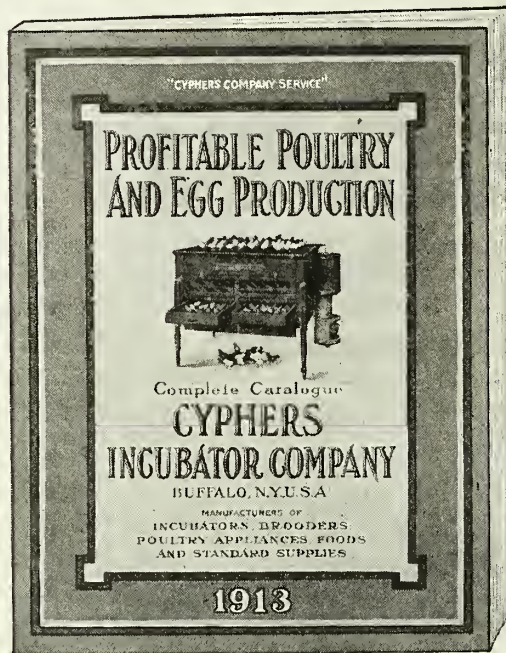
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THE INDUSTRIOUS HEN
Knoxville, Tenn.

CYPHERS INCUBATOR COMPANY'S GREAT ANNUAL FREE BOOK. READY FOR MAILING THIS MONTH.

Many readers of this paper will be glad to learn that the 1913 Complete Catalogue and Poultrymen's Guide, published annually by Cyphers Incubator Co., Buffalo, N. Y., will be ready for distribution this month; also that a first edition copy will be mailed free by the Cyphers people, post-paid, to any of our readers who will write them for it and mention Industrious Hen.

The Cyphers Company's 1913 book contains 244 pages, 7¼ by 9¾ inches in size and each copy weighs a pound. It is profusely illustrated from cover to cover, including hundreds of pictures of fowls, down-to-date poultry plant views and recent portraits of foremost American and Canadian poultry breeders.



This 244-Page Book Free To Our Readers.

The title of the 1913 book is, "Profitable Poultry and Egg Production" and there are eight exceptionally valuable chapters which fully justify its name. They are as follows:

- I. What Is Possible In Poultry Meat Production.
- II. What Can be Done In Way of Egg Production.
- III. Deep-Litter Feeding Experiments of 1912.
- IV. Quick Maturity in General Purpose Fowls.
- V. Desirable Weights In Chickens For Table Use.
- VI. How To Establish Prolific Egg-Yield Flocks.
- VII. Today's Best Chance In The Poultry Business.
- VIII. Small-Scale Poultry Keeping On a Practical Basis.

The Poultrymen's Guide feature of the Cyphers Company's book for 1913 is based on the indisputable fact that the profitable production of market fowl and table eggs form the solid foundation of our present billion dollar poultry industry, of which the Standard-bred branch is the head. The argument of the book is along this line and it is believed by the publishers, that its contents will be a revelation to thousands of earnest poultrymen and women in every branch of the industry.

The greatest value of the Cyphers Company's free catalogue and guide for 1913 is to be found in what it sets forth and recommends as being both possible and practical in the field of really profitable poultry and egg production. The facts reported and the methods described are based on actual experiments conducted in 1911 and 1912 on the company's \$75,000 experimental and demonstration poultry farm, consisting of fifty acres of land located just outside of Buffalo. The 16-page introductory to the book and the eight chapters were written by Grant M. Curtis, President of Cyphers Incubator Co., who says that he believes a copy of it should be read, studied and preserved "by every person who is trying to better his or her condition in life by keeping poultry on either a small or large scale for any purpose."

To obtain a free copy of "Profitable Poultry and Egg Production, write direct to the home offices of Cyphers Incubator Company, Buffalo, N. Y., or address the Company's near-

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are layers, breeders and show birds. We have 150 young stock from winners in Atlanta, Birmingham, Mobile, Montgomery, at **BARGAIN PRICES**

Must make room before cold weather, therefore will fill your orders at half regular prices. Let us quote you prices on cockerels and pullets, cocks and hens.

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est Branch Store, as follows—being sure to mention this paper: 12-14 Canal St., Boston, Mass.; 23 Barclay St., New York City, N. Y.; 329-331 Plymouth Court, Chicago, Ill.; 317-319 Southwest Blvd., Kansas City, Mo.; 2127-2131 Broadway, Oakland, Calif., or 121-123 Finsbury Pavement, London, England.

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The finest laying strain on the South Atlantic Coast. I guarantee pure white plumage, good head points and low, full tails, and full compliance with Standard requirements. I have been perfecting this heavy laying strain for eight years.

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BLUE ANDALUSIANS, White Faced Black Spanish and Silver Spangled Hamburgs, finest strains. All first prize winners at Tennessee State Fair, 1910-11. Eggs, \$1.50 per 15. H. R. Birchett, Lebanon, Tenn. 104

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400 HIGH-CLASS White Plymouth Rock cockerels, bred from prize winning stock, at \$2, \$3, and \$5 each. Descriptive circular free. Philip Condon, R. 35, West Chester, Ohio. 105

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LOYD'S PRIZE WINNING PARTRIDGE Plymouth Rocks. The blue ribbon kind. Stock for sale at right prices. Twelve hundred head to select from. Satisfaction guaranteed. Catalog free. C. J. Loyd & Son, Greensburg, Ind. 106

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WHITE WYANDOTTES.—Bred from heavy laying strain. A few choice cockerels for sale. Prices right, considering stock. Also breeder of White Pekin and Indian Runner Ducks. Eggs in season. E. D. Seaman, Townville, Pa. 105

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PIGEONS.—Carneau and Big Crosses. White Runner Ducks. White Wyandotte Cockerels. "Bred to Lay." Sidney Johnson, Boynton, Virginia. 103

MATED CARNEAUX AND HOMERS.—Yards are too crowded. Mated Carneau, \$2.00 pair; Mated Homers, 90 cents pair, not less than 3 pair at these prices. Number banded and mating guaranteed. Geo. A. Collins, 511 Luttrell St., Knoxville, Tenn. 104

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103

YOUR NAME and the name of your druggist will bring free sample of Nutro Poultry Remedy and circular on diseases. For a limited time we will give a year's subscription to Poultry Husbandry with each 50 cent box ordered from this advertisement. Nutro Chemical Co., Dept. 4, Murray, Ky.
104

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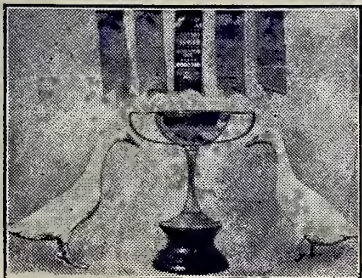
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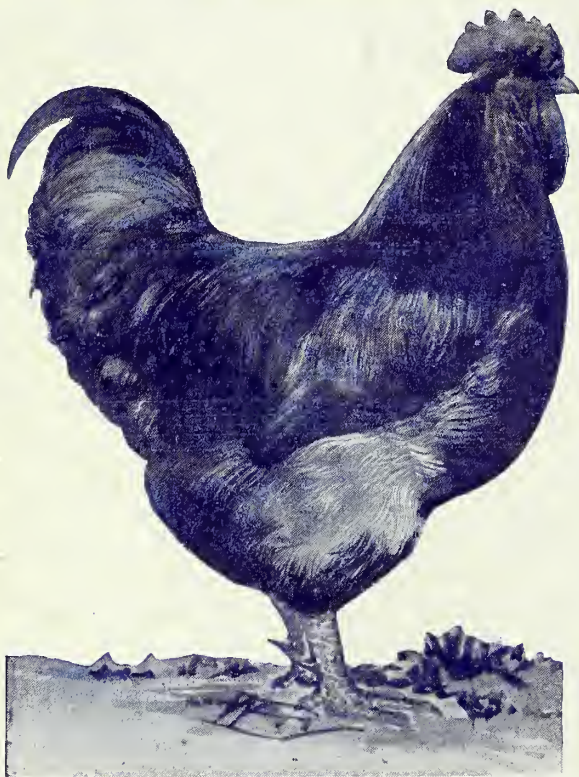
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